H.264 DVR

User Manual

GUI Display with USB Mouse Control

IMPORTANT SAFEGUARD



CAUTION



RISK OF ELECTRIC SHOCK

CAUTION:

To reduce the risk of electric shock, do not expose this apparatus to rain or moisture. Only operate this apparatus from the type of power source indicated on the label. The company shall not be liable for any damages arising out of any improper use, even if we have been advised of the possibility of such damages.



The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.



This exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.



All lead-free products offered by the company comply with the requirements of the European law on the Restriction of Hazardous Substances (RoHS) directive, which means our manufacture processes and products are strictly "lead-free" and without the hazardous substances cited in the directive.



The crossed-out wheeled bin mark symbolizes that within the European Union the product must be collected separately at the product end-of-life. This applies to your product and any peripherals marked with this symbol. Do not dispose of these products as unsorted municipal waste. Contact your local dealer for procedures for recycling this equipment.



This apparatus is manufactured to comply with the radio interference requirements.

Disclaimer

The information in this manual was current when released. We reserve the right to revise or remove any content in this manual at any time. We do not warrant or assume any legal liability or responsibility for the accuracy, completeness, or usefulness of this manual. For the actual display & operation, please refer to your DVR in hand. The content of this manual is subject to change without notice.

The product & company names mentioned herein may be the registered trademarks or tradenames of their respective owners.

Grounding

This is a Safety Class 1 Product (provided with a protective earthing ground incorporated in the power cord). The mains plug shall only be inserted in a socket outlet provided with a protective earth contact. Any interruption of the protective conductor inside or outside of the instrument is likely to make the instrument dangerous. Intentional interruption is prohibited.

Water & Moisture

Do not expose this product to dripping or splashing and that no objects filled with liquids, such as vases, shall be placed on the product.

MPEG4 Licensing

THIS PRODUCT IS LICENSED UNDER THE MPEG-4 VISUAL PATENT PORTFOLIO LICENSE FOR THE PERSONAL AND NON-COMMERCIAL USE OF A CONSUMER FOR (i) ENCODING VIDEO IN COMPLIANCE WITH THE MPEG-4 VISUAL STANDARD ("MPEG-4 VIDEO") AND/OR (ii) DECODING MPEG-4 VIDEO THAT WAS ENCODED BY A CONSUMER ENGAGED IN A PERSONAL AND NON-COMMERCIAL ACTIVITY AND/OR WAS OBTAINED FROM A VIDEO PROVIDER LICENSED BY MPEG LA TO PROVIDE MPEG-4 VIDEO. NO LICENSE IS GRANTED OR SHALL BE IMPLIED FOR ANY OTHER USE. ADDITIONAL INFORMATION INCLUDING THAT RELATING TO PROMOTIONAL INTERNAL AND COMMERCIAL USES AND LICENSING MAY BE OBTAINED FROM MPEG LA, LLC. SEE HTTP://WWW.MPEGLA.COM.

GPL Licensing



This product contains codes which are developed by Third-Party-Companies and which are subject to the GNU General Public License ("GPL") or the GNU Lesser Public License ("LGPL").

The GPL Code used in this product is released without warranty and is subject to the copyright of the corresponding author.

Further source codes which are subject to the GPL-licenses are available upon request.

We are pleased to provide our modifications to the Linux Kernel, as well as a few new commands, and some tools to get you into the code. The codes are provided on the FTP site, and please download them from the following site or you can refer to your distributor:

ftp://ftp.dvrtw.com.tw/GPL/AV074/

TABLE OF CONTENTS

1. BEFORE USING THIS DVR	1
1.1 Package Content	1
1.2 Front Panel	1
1.3 Rear Panel	2
2. CONNECTION AND SETUP	4
2.1 SATA HDD Installation	4
2.2 Camera Connection	
2.2.1 Normal Camera Connection	
2.2.2 PTZ Camera Connection	
2.3 DVR Power On	
2.4 Date and Time Setting 2.5 Clear Hard Disk	
2.6 Password Setting	
3. GUI DISPLAY WITH USB MOUSE CONTROL	
3.1 Connect USB Mouse	
3.2 Quick Menu Bar	
3.2.1 Channel Switch	11
3.2.2 PTZ Control Panel	11
3.3 Main Menu	12
4. BASIC OPERATION	13
4.1 Live Page	13
4.2 Record Icon	13
4.3 Playback	
4.3.1 Playback Control	
4.3.2 Event Search	
4.3.3 Audio Playback	
4.5 Video Output Switch (For 4CH Model Only)	
5. FREQUENTLY-USED FUNCTIONS	
5.1 Quick Search (For 4CH Model Only)5.2 Record	
5.2.1 Quick record setting	
5.2.2 Detailed record setting	
5.3 Schedule Setting	
5.3.1 Record Timer	

5.3.2 Detection Timer	20
5.3.3 Alarm Timer	20
5.4 Detection Setting	21
5.5 PTZ Camera Setting	22
5.6 System Setting	23
5.6.1 Password Setting	23
5.6.2 System Upgrade	23
5.6.3 Video Backup	24
5.6.4 Clear All HDD Data	25
5.7 Network	25
5.8 Event Notifications	
5.8.1 FTP	
5.8.2 E-MAIL	27
6. REMOTE OPERATION	28
6.1 Supplied Licensed Software	28
6.1.1 Installation & Network Connection	
6.1.2 Control Panel Overview	30
6.1.3. General Operation	
6.1.4. E-Map	
6.2 IE Web Browser	
6.2.1 Event Playback & Download	43
APPENDIX 1 SPECIFICATIONS	44
APPENDIX 2 COMPATIBLE USB FLASH DRIVE LIST	46
APPENDIX 3 COMPATIBLE SATA HDD LIST	47
APPENDIX 4 MAIN MENU STRUCTURE	48
APPENDIX 5 DVR BATTERY REPLACEMENT	
APPENDIX 6 PIN CONFIGURATION	50

1. BEFORE USING THIS DVR

1.1 Package Content

Standard Package	
□ DVR	☐ HDD screws
☐ Adapter & Power cord	☐ CD Manual
Optional Accessories	
☐ IR Remote Controller	☐ Manual for IR Remote Controller

1.2 Front Panel

1) LED Indicators

HDD is reading or recording.

(I) DVR is powered on.

2) $\underline{\mathsf{II}}(\blacktriangle)/\blacksquare(\blacktriangledown)/\sphericalangle(\blacktriangleleft)/\Rightarrow(\blacktriangleright)$

Press ▲ / ▼ / ◀ / ▶ to move up / down / left / right.

In the playback mode:

Press "II" to pause playback.

Press "■" to stop playback.

Press "▶" to fast forward.

3) MENU

Press to enter the main menu.

4) ENTER

Press to confirm the setting.

5) SEQ

Press to display each channel in full screen one by one starting from CH1. When the last channel is displayed, it will repeat from CH1 again. To exit this mode, press "SEQ" again.

6) 🖽

Press to show the 4 channel display mode.

7) SLOW

In the playback mode, press to show slow playback.

8) ZOOM

Press to enlarge the picture of selected channel in the FRAME or FIELD recording mode.

9) PLAY

Press to playback the latest recorded data.

10) LIST (Event List Search)

Press to quickly search the recorded files by four event lists: RECORD / MOTION / ALARM / TIME, or select FULL to show all the event logs.

To quickly search the time you want, select "QUICK SEARCH". Set the time range you want, and select "Start" to play the recorded video clip during the specified time.

11) SEARCH (For 4CH Model Only)

Press to enter the time search menu. For details, please refer to "5.1 Quick Search (For 4CH Model Only)" at page 17.

12) CH1 ~ 8 / 1 ~ 4

Press the channel number buttons to select the channel to display.

13) <u>P.T.Z.</u> (⊞ + SEQ)

Press "H" + "SEQ" at the same time to enter / exit the PTZ control mode.

14) AUDIO (SLOW + ZOOM)

Press "SLOW" + "ZOOM" to select live or playback audio from the audio channel.



15) USB port

There are two USB ports on the front panel, one for connecting your USB mouse for mouse control, and the other one for connecting your USB flash drive for video backup.

Note: It's not allowed to have two USB mice or two USB flash drives connected on the front panel.

For the compatible USB flash drive list, please refer to "APPENDIX 2 COMPATIBLE USB FLASH DRIVE LIST" at page 46.

1.3 Rear Panel

1) VIDEO 1 ~ 8 / 1~4: Connect to the video connector of a camera.

Note: The DVR will automatically detect the video system of the camera, please make sure that the cameras are properly connected to the DVR and power-supplied before the DVR is turned on.

2) AUDIO IN

Connect to the audio connector of a camera if the camera supports audio recording.

Please get to know whether your DVR supports the audio function, and how many audio inputs are supported first.

Note: Depending on the model you have, this DVR series supports UP TO TWO audio-in channels, and the audio data will be recorded with the video data of CH1 & CH2 respectively.

For example, if your DVR supports two audio-in, its audio channels will be Audio 1 and Audio 2. When you playback CH1, you will also hear the audio recording of Audio 1.

3) AUDIO OUT

Connect to a speaker with 1 mono audio output.

Note: To know how many audio outputs your DVR supports, please refer to its specifications.

4) MONITOR

Connect to a CRT monitor for video output.

Note: For the 4CH model, only one video output is allowed: either connected to a CRT monitor (MONITOR), or a LCD monitor (VGA).

When both MONITOR and VGA are connected, press the left key ◀ on the DVR front panel during DVR power-on to force the video output via MONITOR. For details, please refer to "4.5 Video Output Switch (For 4CH Model Only)".

5) <u>VGA</u>

Connect to a LCD monitor directly.

Note: For the 4CH model, only one video output is allowed: either connected to a CRT monitor (MONITOR), or a LCD monitor (VGA).

When both MONITOR and VGA are connected, press the left key ▶ on the DVR front panel during DVR power-on to force the video output via VGA. For details, please refer to "4.5 Video Output Switch (For 4CH Model Only)".

6) EXTERNAL I/O

This port is used to connect external devices (such as speed dome cameras or external alarm, etc).

For detailed I/O port PIN configuration, please refer to "APPENDIX 6 PIN CONFIGURATION" at page 50.

7) <u>LAN</u>

Connect to Internet by LAN cable.

8) DC 19V

Connect to the supplied adapter.

9) Power Switch

Switch to "I" to turn on the power, and "O" to turn off the power.

2. CONNECTION AND SETUP

Before the DVR is powered on, make sure you have installed a hard disk and connected at least one camera. For details, please refer to the following sections.

Note: The DVR is designed to automatically detect the video system of the connected cameras (NTSC or PAL). To make sure the system detection is correct, please check if the cameras are connected to the DVR and power-supplied before the DVR is powered on.

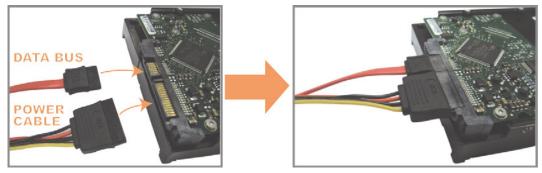
2.1 SATA HDD Installation

A SATA HDD must be installed before the DVR is powered on.

Note: It's recommended to clear all data in the hard disk when the DVR is powered on and the date & time are set correctly to ensure the recorded data are not mixed with other data previously saved in the same hard disk. For details, please refer to "5.6.4 Clear All HDD Data" at page 25.

Step1:Loose the screws on the upper cover and remove it from the DVR. Find the two HDD brackets located on the DVR base.

Step2: Get a compatible HDD, and connect it to the power connector and data bus connector.



Step3: Make sure the PCB side is facing up, and place the HDD between the HDD brackets on the DVR base as shown below.

Make sure the other side of the HDD is contacted with the DVR base for heat conduction.



Step4: Align the screw hole on the each bracket with the screw hole on the each side of the HDD as shown below, and fix the HDD to the bracket with a HDD screw supplied.



Step5: Close the upper cover of the DVR, and fasten all the screws you loosened in Step 1.

2.2 Camera Connection

The cameras must be connected and power-supplied before the DVR is powered on. Connect the camera with the indicated power supply. Then, connect the camera video output to the DVR video input port with a coaxial cable or RCA cable with BNC connectors.

Note: For detailed DVR video input ports, please refer to "APPENDIX 1 SPECIFICATIONS" at page 44.

2.2.1 Normal Camera Connection

Note: For detailed camera installation and connection, please refer to its own user manual.

1) Connecting to DVR video input

Connect the camera video output to the DVR video input port with a coaxial cable or RCA line with BNC connector.

2) Connecting to DVR audio input (Optional)

Connect the camera audio output to the DVR audio input port with a coaxial cable or RCA cable with BNC connectors.

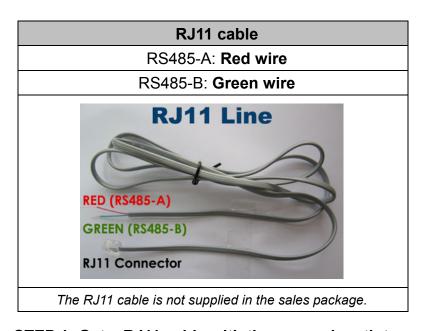
3) Connecting to power

Connect the camera with indicated power supply and make sure it's power-supplied.

2.2.2 PTZ Camera Connection

The following description is taking our brand's PTZ camera as an example.

For DVR setting to control the PTZ camera, please refer to "5.5 PTZ Camera Setting" at page 22. For detailed PTZ camera control and operation, please refer to its own user manual.



STEP 1: Get a RJ11 cable with the proper length to your connection.

Different RJ11 connector may have different wire layout, so the connection might be different. If you cannot control the DVR after connection, please reverse the RJ11 cable connection with the DVR.

STEP 2: Remove one end of the insulating coating of the RJ11 cable.

Remove one end of the insulating coating of the RJ11 cable to find the RS485-A and the RS485-B wires, and remove the insulating coating to reveal the naked wires for further connection.

STEP 3: Twist the RS485-A and RS485-B wires of the RJ11 cable and the speed dome camera together.

Twist the RS485-A (red) and RS485-B (green) wires of the RJ11 cable to the RS485-A (brown) and RS485-B (orange) wires of the speed dome camera. To protect the naked wires, use the insulation tape to cover on the twisted wires.

STEP 4: Connect the other end of the RJ11 cable to DVR.

Solder the RS485-A (red) and RS485-B (green) wires of the RJ11 cable to the corresponding pins on the solder side of the optional D-Sub connector.

For DVR PIN configuration, please refer to "APPENDIX 6 PIN CONFIGURATION" at page 50. For connection details, please check with your installer.

STEP 5: Set the speed dome camera at the DVR side.

Go to "ADVANCE CONFIG" → "REMOTE" to set the speed dome camera.

- a) Select the device to "PTZ".
- b) Set the ID to the value the same as the one set in the speed dome camera. The default ID of the camera is 000.

- c) Select the protocol to "NORMAL".
- d) Set the baud rate to the value the same as the one set in the speed dome camera. The default baud rate of the camera is 2400.

ADVANCE CONFIG				
CANERA DETECTION ALERT NETWORK DISPLAY RECORD REMOTE	CH1 CH2 CH3 CH4 CH5 CH6 CH7 CH8 DEVICE PTZ ID 000 PROTOCOL NORMAL RATE 2400			
EXIT				

2.3 DVR Power On

This device should be operated only with the type of power source indicated on the manufacturer's label. Connect the indicated AC power cord to the power adapter, and plug into an electrical outlet. The power LED will be on.

Note: Before the DVR is powered on, make sure the cameras are connected and power-supplied for the detection of the camera video system to be correct, and check the monitor (either LCD or CRT monitor) is connected to the DVR before the DVR is powered on for correct video output detection.

Note: To ensure that your DVR works constantly and properly, it's recommended to use an UPS, Uninterruptible Power Supply (Optional), for continuously operation.

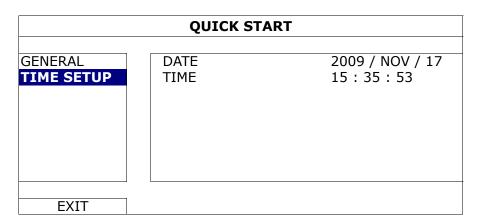
2.4 Date and Time Setting

Before operating your DVR, please set the date and time on your DVR FIRST.

Note: Please DO NOT change the date or time of your DVR after the recording function is activated. Otherwise, the recorded data will be disordered and you will not be able to find the recorded file to backup by time search. If users change the date or time accidentally when the recording function is activated, it's recommended to clear all HDD data, and start recording again.

Note: For the first time to use the DVR, please power it on for at least 48 hours continuously after the date & time is set correctly. It helps to prevent DVR time from resetting after the disconnecting of DVR power. If the DVR time resets after the disconnecting of DVR power, for example, caused by a power outage, the battery might run out and please replace the battery as described in "APPENDIX 5 DVR BATTERY REPLACEMENT" at page 49.

Right-click to enter the DVR password with the password keypad. The default administrator password is 0000. The status will be changed from \bigcirc (key lock) to \bigcirc (administrator). Then, right-click to show the main menu, and select "QUICK START" \rightarrow "TIME SETUP" to set the date & time.



2.5 Clear Hard Disk

It's recommended to clear all data in the hard disk for the first time to user this DVR to ensure the recorded data are not mixed with other data previously saved in the same hard disk.

Right-click to show the main menu, and select "SYSTEM" → "SYSTEM INFO" → "CLEAR HDD". The DVR will reboot when HDD data are cleared.

SYSTEM					
TOOLS SYSTEM INFO USB BACKUP	BAUD RATE HOST ID AUTO KEY LOCK CLEAR HDD RESET DEFAULT	2400 000 NEVER HDD-0 SUBMIT			
	REMOTE CONTROL ID SERIAL TYPE	000 RS485			
	VIDEO FORMAT VERSION	NTSC 1025-1011-1011-1012			
EXIT					

2.6 Password Setting

Right-click to show the main menu, and select "SYSTEM" \rightarrow "TOOLS" to change the DVR password.

There are two user levels: ADMIN & OPERATOR. For details, please refer to "4.4 User Level Switch" at page 15.

SYSTEM				
TOOLS SYSTEM INFO USB BACKUP	LANGUAGE ADMIN PASSWORD OPERATOR PASSWORD UPGRADE BACKUP CONFIG RESTORE CONFIG	ENGLISH SETUP SETUP SUBMIT SUBMIT SUBMIT		
EXIT				

3. GUI DISPLAY WITH USB MOUSE CONTROL

3.1 Connect USB Mouse

Connect your USB mouse to one of the USB ports on the DVR front panel, and check if there's a mouse icon ((*\varphi)) on the screen, indicating the USB mouse is detected properly.

Move your mouse to enter the DVR password with the password keypad. The default administrator password is **0000**. The status will be changed from (key lock) to (administrator), and the quick menu bar appears on the left side of the screen.

Note: There are two user levels for DVR access which can be set in the main menu "SYSTEM" → "TOOLS". For details, please refer to "4.4 User Level Switch" at page 15.

Password Input



Quick Menu: Close



3.2 Quick Menu Bar

Move to the arrow mark to extend the quick menu bar and show the five functions as follows:

Quick Menu: Open





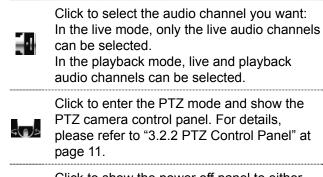
Click to show the channel switch panel and select the channel you want. For details, please refer to "3.2.1 Channel Switch" at page 11.



Click to display the playback control panel, and click to play the latest recorded video clip, or click to enter the search list. For details, please refer to "4.3 Playback" at page 14.



Switch to the channel you want first, and click to enter the zoom-in mode. In this mode, click and drag the red frame on the bottom left of the screen to move to the place you want to see. To exit this mode, click .





Click to show the power off panel to either halt or reboot the system.

3.2.1 Channel Switch

Click on the quick menu bar to display the panel as follows:

Note: The buttons available depend on the model you have.



1~8 / 1~4	Video Channel Number	Click to switch to the channel you want in full screen.	
O	Sequence Display	Click to display each channel in full screen one by one starting from CH1. When the last channel is displayed, it will repeat from CH1 again. When this function is on, will be shown on the status bar.	
\blacksquare	Quad Display	Press to show the 4-channel display mode.	
	9-Cut Display (For 8CH Model Only)	Press to show the 9-channel display mode.	

3.2.2 PTZ Control Panel

Note: In the PTZ control mode, hot point is supported to move the camera view to the specified point after a click.

Click on the quick menu bar to display the panel as follows:



	Camera Menu	Click to enter the camera main menu. For details about each camera menu, please refer to its own user manual.
1	Enter	Click to confirm your selection / enter the menu.
	Up / Down / Left / Right	Click to move your selection up / down / left / right, or change settings.
• / •	Zoom in / out max	Click to zoom in on the image to the largest / zoom out on the image to its original size.
Q / Q	Zoom in / out	Click to zoom in / out the image.
	Focus near / far	Click to adjust the focus of the image.
AUTO	Auto mode	Click to activate the auto function. Before using it, you need to assign a specific function that will be enabled when "AUTO" is clicked. For details, please refer to the user manual of the PTZ camera.
PRESET	Preset point	Click to enter the PTZ preset point you want to see.

3.3 Main Menu

Right-click anywhere on the screen to show the main menu as follows, and right-click again to exit.

For details about the menu structure, please refer to "APPENDIX 4 MAIN MENU STRUCTURE" at page 48.

Main Menu



4	<u> </u>	QUICK START	settings, and date & time.
	6,	DATE SETUP	Click to set the date display and daylight saving.
	i	SYSTEM	Click to set the system configurations.
į	((3))	EVENT INFORMATION	Click to enter the event search menu.
		ADVANCE CONFIG	Click to set CAMERA, DETECTION, ALERT, NETWORK, DISPLAY, RECORD and REMOTE.
	۲.	SCHEDULE SETTING	Click to set record timer and detection timer.

4. BASIC OPERATION

4.1 Live Page



Icon	Function	lcon	Function	lcon	Function
1	Live audio channel (1~2)	4	Playback audio channel (1~2)	4	Audio channel off
Q	Digital zoom on	(Digital zoom off	®	Timer recording
4	Network disconnected	4	Internet connected		LAN connected
8	USB mouse connected	⇔	USB flash drive / device connected	&	No USB device connected
<u>_</u>	Key lock	•	PTZ mode on	CD	HDD overwrite
2	Administrator	2	Operator		Sequence
€	Motion	Ž	Recording	(tot)	Alarm

4.2 Record Icon

1) Manual Recording

By defaults, manual recording is on (\nearrow) when the DVR is powered on and a HDD is installed.

2) Event Recording

When the motion detection or alarm is on, the motion icon ($^{\textcircled{\bullet}}$) or alarm icon ($^{\textcircled{\bullet}}$) shows on the screen for any motion or alarm event.

3) Timer Recording

When timer recording is on, you will see "" on the screen.

4) HDD Overwritten

Be defaults, the HDD overwritten function is set to ON, and "\" will be shown on the screen.

4.3 Playback

Click "D" on the quick menu bar to display the playback control panel, and click D to play the latest recorded video clip, or click to enter the search list.



Note: There must be at least 8192 images of recorded data for playback to work properly. If not, the device will stop playback. For example, if the IPS is set to 30, the recording time should be at least 273 seconds (8192 images / 30 IPS) for the playback to work properly.

Note: During playback, the image size of the recording (FRAME, FIELD or CIF) will be shown on the screen.

4.3.1 Playback Control

		Increase the speed for fast forward. Click once to get 4X
>>	Fast Forward	speed forward and click twice to get 8X speed, etc., and
		the maximum speed is 32X.
		Increase the speed for fast rewind. Click once to get 4X
•	Fast Rewind	speed rewind and click twice to get 8X speed, etc., and the
		maximum speed is 32X.
		Click to play the latest recorded video clip immediately,
		and click again to pause.
	Play / Pause	In the pause mode, click Donce to get one frame
		forward, and click 💶 to get one frame rewind.
	Stop	Click to stop the video playback.
	Clay Dlayback	Click once to get 1/4X speed playback, and click twice to
>>	Slow Playback	get 1/8X speed playback.
		Click to jump to the next / previous time interval in an hour,
K /	Previous /	for example, 11:00 ~ 12:00 or 14:00 ~ 15:00, and start
	Next Hour	playing the earliest event video clip recorded during this
M		whole hour.

4.3.2 Event Search

Click to quickly search the recorded files by four event lists: RECORD / MOTION / ALARM / TIME, or select FULL to show all the event logs.

To quickly search the time you want, select "QUICK SEARCH". Set the time range you want, and select "Start" to play the recorded video clip during the specified time.

4.3.3 Audio Playback

In the playback mode, click on the quick menu bar as many times as needed to select live or playback audio from the audio channel.



Live audio (indicated in white).



Playback audio (indicated in yellow).



Audio channel unselected

Note: To make a video backup with audio, make sure the camera which supports the audio function is connected to the video-in channel and audio-in channel. For example, the audio data from the audio channel 1 will be recorded with the video data from the video channel 1.

4.4 User Level Switch

In the key lock mode ($\stackrel{\triangle}{\square}$), move your USB mouse to display the password input keypad. There are two user levels for accessing the DVR: Administrator ($\stackrel{\triangle}{\square}$) & Operator ($\stackrel{\triangle}{\square}$).

When the administrator password is entered, 2 will be shown on the status bar of the screen and all operations are allowed. The default administrator password is 0000.

When the operator password is entered, \triangle will be shown on the status bar of the screen, and the main menu is **NOT** allowed to access. The operator user level needs to be set in the main menu "SYSTEM" \rightarrow "TOOLS".

To switch between these two user levels, click the current user level icon to switch to the key lock mode, and move your mouse to show the password input keypad, and enter the password of the user level you want.

4.5 Video Output Switch (For 4CH Model Only)

Note: Check the monitor (either LCD or CRT monitor) is connected to the DVR before the DVR is powered on for correct video output detection.

It's not allowed to have video output simultaneously on a CRT monitor (connected to MONITOR) and LCD monitor (connected to VGA).

The default video output setting is "AUTO", meaning the DVR will automatically detect the video output source. When VGA and MONITOR are both connected, the default monitor output is VGA.

To change the video output setting manually:

- To force the video output via MONITOR, press the left key ◀ on the DVR front panel at DVR power-on.
- To force the video output via VGA, press the right key ▶ on the DVR front panel at DVR power-on.

The setting is changed when you hear a short beep sound.

OR:

When the DVR is powered on and initialized, right-click to show the main menu, and select "ADVANCE CONFIG" → "DISPLAY" → "DISPLAY OUTPUT PATH".

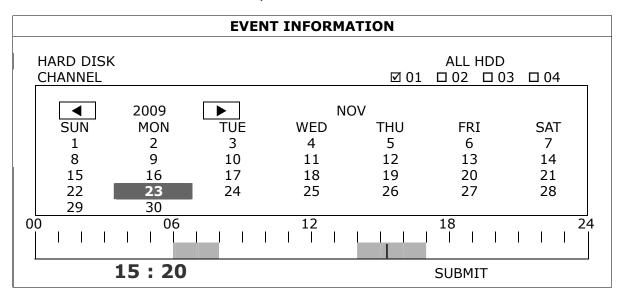
Select "VGA" to switch to the connected LCD monitor, or "COMPOSITE" to switch to the connected CRT monitor. The DVR will then reboot for the change to take effect.

ADVANCE CONFIG				
CAMERA	FULL SCREEN DURATION	03		
DETECTION	DISPLAY COVERT	ON		
ALERT	HDD DISPLAY MODE	HDD SIZE		
NETWORK	DISPLAY OUTPUT PATH	AUTO		
DISPLAY	ALPHA BLENDING	200		
RECORD				
REMOTE				
EXIT				

5. FREQUENTLY-USED FUNCTIONS

5.1 Quick Search (For 4CH Model Only)

Press "SEARCH" on the DVR front panel to enter the time search menu as follows:



- Step1: Select the hard disk and channel including the video data you want to search.
- Step2: Select the month including the video data you want to search from the calendar, and the date with recorded data will be highlighted.
- Step3: Select the date you want from the calendar, and the time with recorded data will be highlighted from the time scale bar.
- Step4: To immediately play the video clip, click "SUBMIT".
 - To choose the start time for video playback, move your mouse cursor to the highlighted time, and click to confirm the time when the time display below is the time you want. The video playback is activated right away when you confirm the time.

5.2 Record

5.2.1 Quick record setting

Right-click to display the main menu, and select "QUICK START" → "GENERAL".

	QUICK START	
GENERAL TIME SETUP	CHANNEL TITLE EVENT STATUS DATE DISPLAY IMAGE SIZE QUALITY I.P.S.	ON ON ON CIF SUPER BEST 120
EXIT		

1) IMAGE SIZE

Show the image size: CIF.

2) QUALITY

Select one of the 4 quality options: SUPER BEST, BEST, HIGH & NORMAL.

3) <u>I.P.S.</u>

Select the images per second for MANUAL RECORD.

5.2.2 Detailed record setting

Right-click to display the main menu, and select "ADVANCE CONFIG" → "RECORD".

Note: Please DO NOT change the date or time of your DVR after the recording function is activated. Otherwise, the recorded data will be disordered and you will not be able to find the recorded file to backup by time search. If users change the date or time accidentally when the recording function is activated, it's recommended to clear all HDD data, and start recording again.

ADVANCE CONFIG			
MANUAL RECORD ENABLE	ON		
EVENT RECORD ENABLE TIMER RECORD ENABLE	ON ON		
EVENT RECORD IPS	120 120		
PRE-ALARM RECORD	ON		
OVERWRITE KEEP DATA LIMIT (DAYS)	ON OFF		
	MANUAL RECORD ENABLE EVENT RECORD ENABLE TIMER RECORD ENABLE EVENT RECORD IPS TIMER RECORD IPS PRE-ALARM RECORD OVERWRITE		

1) MANUAL RECORD ENABLE

Set the manual recording function on / off.

2) EVENT RECORD ENABLE

Set the event recording function on / off.

3) TIMER RECORD ENABLE

Set the timer recording function on / off.

4) EVENT RECORD IPS

Select the images per second for EVENT RECORD (Recording that is triggered by alarm or motion).

5) TIMER RECORD IPS

Select the images per second for TIMER RECORD (Recording that is activated according to the scheduled time).

6) PRE-ALARM RECORD

Select to enable or disable the pre-alarm function (ON / OFF).

When pre-alarm and event recording functions are both activated, the DVR will record 8MB data before an alarm / motion event is triggered.

7) OVERWRITE

Select "ON" to overwrite previous recorded data in your HDD when the HDD is full. When this function is on and the HDD is full, the DVR will clear 8GB data from the oldest for continuous recording without notice.

8) KEEP DATA LIMIT (DAYS)

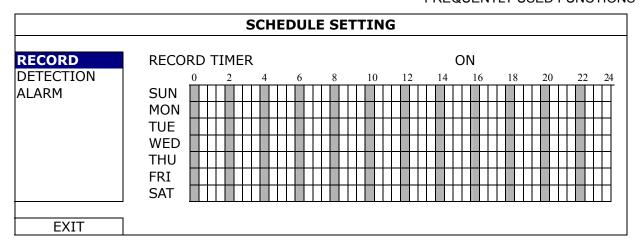
Assign the maximum recording days from 01 to 31 after which all the recorded data will be removed, or select "OFF" to disable this function.

5.3 Schedule Setting

Right-click to display the main menu, and select "SCHEDULE SETTING".

5.3.1 Record Timer

Click "RECORD". In "RECORD TIMER", select "ON" to enable record timer, and select the day and time for this function.

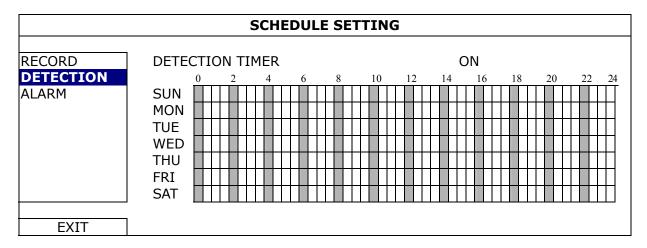


X axis $0 \sim 24$ hours. Each time bar is 30 minutes.

Y axis Monday ~ Sunday.

5.3.2 Detection Timer

Click "DETECTION". In "DETECTION TIMER", select "ON" to enable detection timer, and select the day and time for this function.

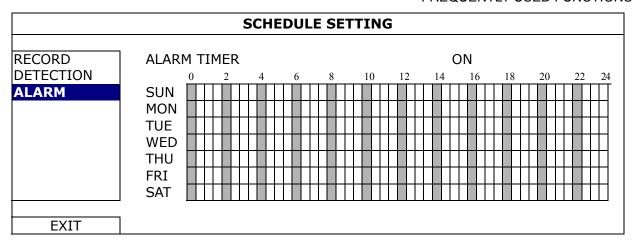


X axis $0 \sim 24$ hours. Each time bar is 20 minutes.

Y axis Monday ~ Sunday.

5.3.3 Alarm Timer

Click "ALARM". In "ALARM TIMER", select "ON" to enable alarm timer, and select the day and time for this function.

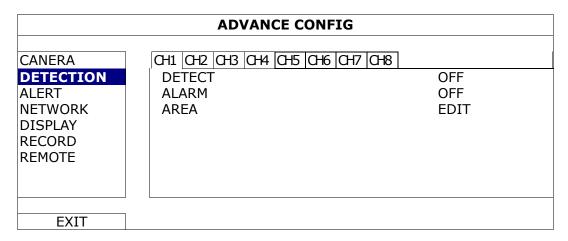


X axis $0 \sim 24$ hours. Each time bar is 20 minutes.

Y axis Monday ~ Sunday.

5.4 Detection Setting

Right-click to display the main menu, and select "ADVANCE CONFIG" → "DETECTION".



1) DETECT

Select the detection sensitivity to LOW / NORMAL / HIGH, or disable the motion detection function for the selected channel (OFF).

2) ALARM

Select N.C./ N.O depending on your installation need. The default alarm value is OFF.

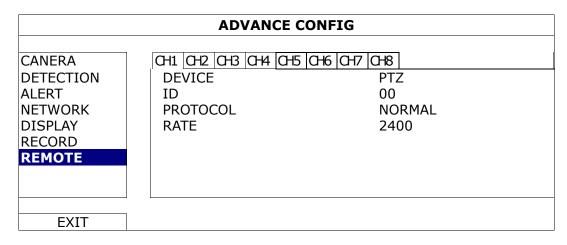
3) AREA

Click "EDIT" to set the motion detection area.

There are 16 × 12 grids per camera for all channels. Pink blocks represent the area that is not being detected while the transparent blocks are the area under detection.

5.5 PTZ Camera Setting

Right-click to display the main menu, and select "ADVANCE CONFIG" → "REMOTE".



1) DEVICE

For the PTZ camera, select "PTZ".

4) <u>ID</u>

Click the current value to set the ID number (0 \sim 255) for the connected PTZ camera if necessary.

Make sure the ID setting of the camera is the same as the setting here, or the DVR will not be able to control the device.

Note: To know the default ID of the PTZ camera, please refer to its user manual.

5) PROTOCOL

Select NORMAL (our protocol), P-D (PELCO-D) or P-P (PELCO-P) protocol.

6) RATE

Select the baud rate for the connected PTZ camera (2400 / 4800 / 9600 / 19200 / 57600 / 115200).

Make sure the baud rate setting of the camera is the same as the setting here, or the DVR will not be able to control the device.

Note: To know the default baud rate of the PTZ camera, please refer to its user manual.

5.6 System Setting

5.6.1 Password Setting

Right-click to display the main menu, and select "SYSTEM" → "TOOLS".

SYSTEM			
TOOLS SYSTEM INFO USB BACKUP	LANGUAGE ADMIN PASSWORD OPERATOR PASSWORD UPGRADE BACKUP CONFIG RESTORE CONFIG	ENGLISH SETUP SETUP SUBMIT SUBMIT SUBMIT	
EXIT			

1) ADMIN PASSWORD

Click "SETUP" to change the administrator password. The default administrator password is **0000**.

When you're prompted to enter the DVR password, enter the administrator password, and all operations are allowed.

2) OPERATOR PASSWORD

Click "SETUP" to set or change the operator password. .

When you're prompted to enter the DVR password, enter the operator password, and \triangle will be shown on the status bar of the screen and the main menu is **NOT** allowed to access.

5.6.2 System Upgrade

Note: DVR system upgrade might cause all HDD data cleared when your current system version is too old from the latest version. Therefore, before upgrading the DVR system, check your current firmware version with your installer or distributor, and make video backup if necessary.

Right-click to display the main menu, and select "SYSTEM" → "TOOLS" → "UPGRADE".

Save the upgrade files obtained from your installer or distributor in a compatible USB flash drive, and insert it into the USB port at the front panel.

Then, click "SUBMIT" to start upgrading.

Note: Before using the USB flash drive, please use your PC to format the USB flash drive to FAT32 format first. For the list of compatible USB flash drives, please refer to "APPENDIX 2 COMPATIBLE USB FLASH DRIVE LIST" at page 46.

5.6.3 Video Backup

Right-click to display the main menu, and select "SYSTEM" → "USB BACKUP".

Insert a compatible USB flash drive to the USB port at the front panel.

Note: Before using the USB flash drive, please use your PC to format the USB flash drive to FAT32 format first. For the list of compatible USB flash drives, please refer to "APPENDIX 2 COMPATIBLE USB FLASH DRIVE LIST" at page 46.

	SYSTEM				
TOOLS SYSTEM INFO USB BACKUP	START DATE START TIME END DATE END TIME CHANNEL HARD DISK BACKUP	☑ 01 ☑ 05 ☑ 09 ☑ 13	08 200 17 02 06 10 14 ALI	09/NO\ :30:21 09/NO\ :59:29	,
	REQUIRE SIZE:	554MB		BMIT	
EXIT	AVAILABLE SIZE: 37	788.0MB			

1) START DATE / START TIME

Select the start date & time.

2) END DATE / TIME

Select the end date & time.

3) CHANNEL

Click to select the channel(s).

4) HARD DISK

Select the hard disk containing the video data you need or "ALL HDD".

5) BACKUP

Click "SUBMIT" to start backup.

6) REQUIRE SIZE

To know the size of the expected backup video before backup, click "SUBMIT" to start calculating.

■ Backup File Playback

During the backup process, a file player installer "PLAYER.EXE" will also be copied into your USB flash drive or disk, and you will see the message "CHECK PLAYER" shown on the screen.

Insert your USB flash drive to your PC. Install the file player "PLAYER.EXE", and double click a backup file to play it directly in your PC and see if the backup is successful.

Note: The supported PC operating systems are Windows 7, Vista, XP & 2000.

5.6.4 Clear All HDD Data

Right-click to show the main menu, and select "SYSTEM" → "SYSTEM INFO" → "CLEAR HDD".

SYSTEM				
TOOLS SYSTEM INFO USB BACKUP	BAUD RATE HOST ID AUTO KEY LOCK CLEAR HDD RESET DEFAULT REMOTE CONTROL ID SERIAL TYPE VIDEO FORMAT VERSION	2400 000 NEVER HDD-0 SUBMIT 000 RS485 NTSC		
EXIT				

Select the HDD you want to clear, and click "YES" to confirm or "NO" to cancel.

It's recommended to clear all data in the hard disk when:

- It's the first time to use this DVR to ensure the recorded data are not mixed with other data previously saved in the same hard disk.
- DVR date and time are changed accidentally when the recording function is activated. Otherwise, the recorded data will be disordered and you will not be able to find the recorded file to backup by time search.

5.7 Network

The description below is only for STATIC network type. For PPPOE and DHCP settings, you need to set from "Video Viewer".

For details, please download the extended user manual for "Video Viewer" from http://www.surveillance-download.com/user/CMS.pdf.

STATIC

ADVANCE CONFIG				
CANERA DETECTION	NETWORK SNTP FTP E-MAI	STATIC		
ALERT NETWORK DISPLAY	IP GATEWAY NETMASK	192.168.001.010 192.168.001.254 255.255.255.000		
RECORD REMOTE	PRIMARY DNS SECONDARY DNS	168.095.001.001 139.175.055.244		
	PORT SAVE NETWORK SETTING	0080 APPLY		
EXIT				

1) <u>NETWORK TYPE</u>

Select the network type as STATIC and set all the information needed in the DVR.

3) <u>NETWORK INFORMATION (IP / GATEWAY / NETMASK)</u>

Key in all the network information obtained from your ISP (Internet Service Provider).

4) DNS (PRIMARY DNS / SECONDARY DNS)

Key in the IP address of the domain name server obtained from your ISP (Internet Service Provider).

5) <u>PORT</u>

The valid number ranges from 1 to 9999. The default value is 80. Typically, the TCP port used by HTTP is 80. However in some cases, it is better to change this port number for added flexibility or security.

6) SAVE NETWORK SETTING

Click "APPLY" to confirm the settings.

5.8 Event Notifications

It's available to set event notifications to FTP / E-Mail from this DVR.

5.8.1 FTP

When this function is enabled and an event occurs, a html file including a link will be sent to the specified FTP site. Click the link to access to this DVR and check the event recording.

ADVANCE CONFIG				
CANERA DETECTION ALERT NETWORK DISPLAY	NETWORK SNTP FTP E-MAIL FTP ALERT USER NAME PASSWORD SERVER NAME PASSWORD 192.168.2.32			
RECORD REMOTE	PORT 0021 DIRECTORY UPLOAD			
EXIT				

5.8.2 E-MAIL

When this function is enabled and an event occurs, a html file including a link will be sent to the specified E-mail address. Click the link to access to this DVR and check the event recording.

ADVANCE CONFIG				
CANERA DETECTION ALERT NETWORK DISPLAY RECORD REMOTE	NETWORK SNTP FTP E-MA E-MAIL ALERT SMTP SERVER PORT MAIL FROM SSL ENCRYPTION VERIFY PASSWORD	ON SNTP.GMAIL.COM 465 MANAGER ON ON		
FXIT	USER NAME PASSWORD RECEIVER	MANAGER SETUP		

6. REMOTE OPERATION

You can also control the DVR remotely via the supplied licensed software "Video Viewer", Internet Explorer web browser, and Apple's QuickTime player.

6.1 Supplied Licensed Software

The sections below describe frequently-used functions of the Video Viewer. For details about this software and network settings, please download its extended user manual from the following link:

http://www.surveillance-download.com/user/CMS.pdf

6.1.1 Installation & Network Connection

1) Install the software

- Step1: Place the supplied CD into your CD-ROM or DVD-ROM drive. The program will be automatically run.
- Step2: Click "Download The Latest Version" under "Licensed Software AP" to download the latest version of Video Viewer from the Internet.
- Step3: Follow the on-screen instructions to finish the installation. When the installation is completed, a shortcut icon "" will be placed on your PC desktop.

2) Network Connection

Local Connection (via LAN)

LAN is used when it's the first time to remotely access the DVR and you need to configure the network setting of your DVR based on your network type in advance.

a) Connect the DVR to your PC via a RJ45 network cable. The default DVR values are as follows:

Item	Default Value	
IP address	192.168.1.10	
User name	admin	
Password	admin	
Port	80	

- b) Set the PC's IP address as "192.168.1.XXX" (1~255, except 10) in order to make the PC and DVR under the same domain.
- c) Double-click "Program icon on your PC desktop to enter the control panel. By defaults, the "Address Book" panel will be displayed on the right side of the

control panel.

d) Click "☐" → " to key in the default IP address, user name, password, and port number of the DVR you intend to connect.

OR

Click "□" → " to search the available IP address(es) of other DVR(s) under the same domain as your PC's IP address. The found address(es) will be listed, and can be added into the address book by clicking "□".

e) Double-click the IP address you just added into the address book to log in.

Remote Connection (via Internet)

When the network configuration of your DVR is completed, you can access your DVR remotely via Internet.

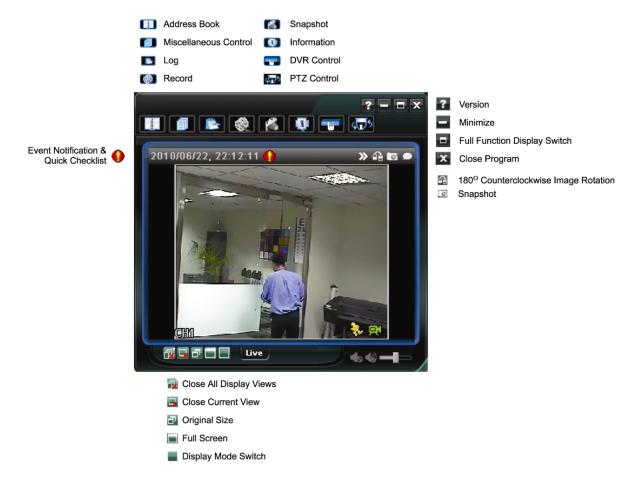
- a) Double-click "P" icon on your PC desktop to enter the control panel. By defaults, the "Address Book" panel will be displayed on the right side of the control panel.
- b) Click " → " to key in the IP address, user name, password, and port number of the DVR you intend to connect.

c) Double-click the IP address you just added into the address book to log in.

6.1.2 Control Panel Overview

Two control panels are available and can be switched depending on your use habit.

Simplified Version (Default)



Full Function Version



Main Button Overview

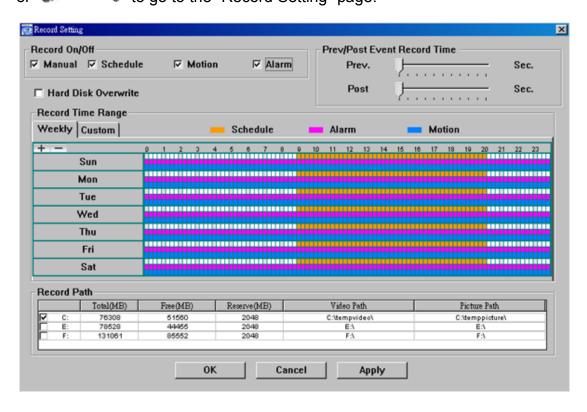
Button					
Simplified	Full Function	Function	Des	Description	
Aprel	au	Address Book	Click to show the predefined IP address(es). You can add, remove or search the IP address to log in the DVR remotely.		
		Miscellaneous	A	Remote Config	Click to go into the detailed DVR setting.
				Record Setting	Click to go to the detailed record setting.
		Control		Custom Setting	Click to choose the language of this program. The language change will take effect when this program is closed and executed again.
*	CLUM	Log	Click to view all event and recording logs, search the desired log(s) by date, or playback the recording of the selected log.		

Button			
Simplified	Full Function	Function	Description
(*)	® , ®	Record / Record Stop	Click to start / stop the manual recording.
ris .	O	Snapshot	Click to take a snapshot of the current view. The snapshot will be saved in the path you specified in "Record Setting".
Ø	0	Information	Click to show the current network connection details.
		DVR Control	Click to go to the DVR control panel to operate the DVR remotely.
্ক্ত ^১		PTZ Control	Click to go to the PTZ camera control panel to operate the connected PTZ camera.

6.1.3. General Operation

Record

To record remotely at the same time for any event or alarm at the DVR side, click " \bigcirc " or " \bigcirc " to go to the "Record Setting" page.



In the "Record Setting" page, you can set the following items:

- · Record type
- · Hard disk overwriting

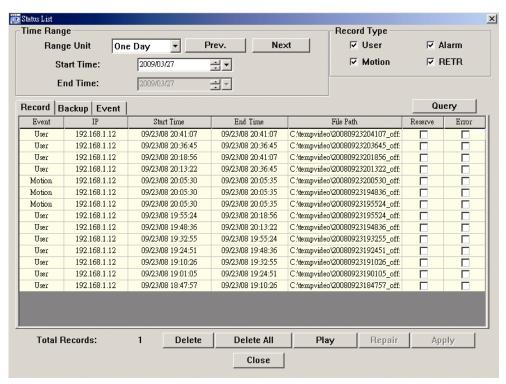
- Pre- / post-alarm record time
- Record time setting
- · Record path

If "Manual" is checked, click " or " on the main control panel to start the manual recording immediately, and the recordings will be saved in the specified location.

If "Motion" and / or "Alarm" are checked, the recording function will also be enabled at the remote side when any event is triggered at the DVR side, and the recordings will be saved in the specified location.

Playback

To play a recording, click "List" or "List", and select the "Record" tab or "Backup" tab. A list of all the recordings will be shown by defaults, and you can also sort out the logs you want to speed up the search time.

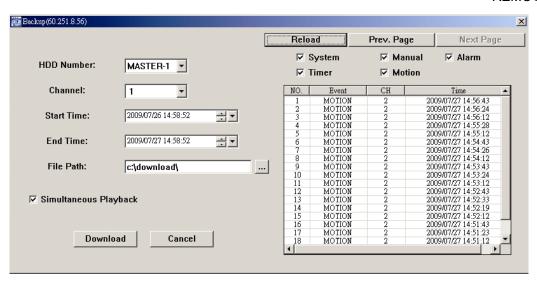


To immediately play a recording, select a log from the list, and click "Play", or double-click the selected log.

Network Backup

Click " or click " to go into the "Backup" page as follows, and you can select a specific time range or event to make a video backup remotely.

The file(s) you backup will be from the currently selected IP address.



Function	Description
HDD Number / Channel	Specify the hard disk (HDD Number) and channel number (Channel) within which have the video data you need.
Download by Time	Specify the time range within which has the video data you want in the "Start Time" and "End Time" columns.
Download by Event	Select an event log from the event list. This list shows all logs in the specified DVR from the latest to the earliest. • To quickly find the events you need, check or uncheck the event type "System" / "Manual" / "Alarm" / "Motion", and select the log you want. • To view the earlier or later logs that are not shown in the current page, click "Prev. Page" or "Next Page". • To refresh the event list, click "Reload".
File Path	Assign the location where the backup files are saved.
Simultaneous Playback	To view the backup images simultaneously when the download process is in progress, select the checkbox "Simultaneous Playback". You will see the backup images while the images are being downloaded to the PC or notebook.
	To simply backup images without previewing, deselect the checkbox "Simultaneous Playback". You will only see a message box indicating the total time needed, the current status and the saving location.
Download / Cancel	Click "Download" to start or "Cancel" to discard the video backup.

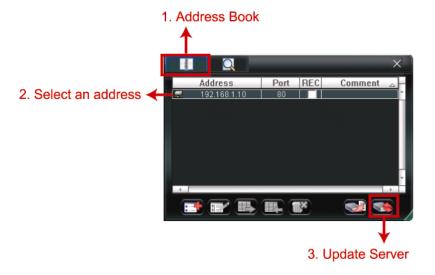
Firmware Upgrade

This function is used to grade your DVR for function scalability.

Note: Before using this function, make sure you have the correct upgrade files provided by your installer or distributor.

Step1: Click "II", and select the IP address of your device in the address book.

Step2: Click "Step2" to show the upgrade page, "Update Server".



Step3: Click "Add" to browse to the upgrade files.



Step4: Click "Upgrade Firmware" to start firmware upgrade.

Note: It takes a few minutes to finish the upgrade process. Do not disconnect the power during firmware upgrade, or the upgrade may be failed. The device will reboot after the upgrade.

Step5: Select the IP address of the device and click "Spanning again to check if the firmware is upgraded.

6.1.4. E-Map

Video Viewer is also a Central Management System (CMS) software, which allows network device control & management for up to 16 devices simultaneously.

Note: Before using this function, make sure Video Viewer is connected to all the devices (up to 16) you want to monitor.

E-Map is **ONLY** available when the control panel is switch to the full function version.

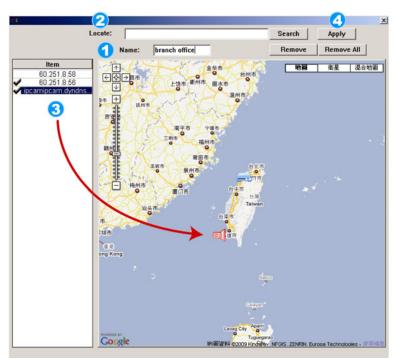
How to Add an E-Map Group

STEP1: In the simplified version, click "• to switch the control panel to the full function version, and click "• to enter the E-Map page as follows.

Note: To know where the buttons are, please refer to "Simplified Version (Default) at page 30, and "Full Function Version" at page 31.



STEP2: Right-click to show the shortcut menu on the top-left panel, and select the E-Map group you want to add. There are three E-Map groups you can add: Google E-MAP, Single E-MAP, and Building E-MAP.

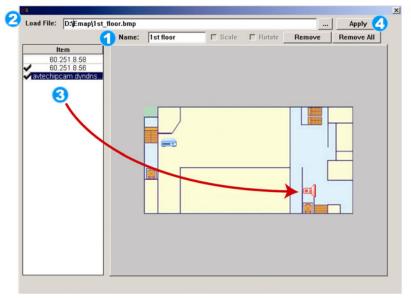


How to add a Google E-Map group:

- Enter the name of this Google E-Map group.
- 2 Enter a specific address or landmark, and click "Search".

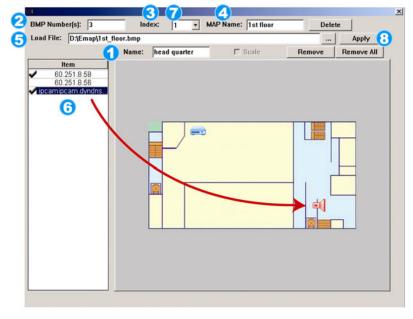
Move to the map and drag to the location you want.

- Click and drag the IP address to where it's located in the current level.
- Click "Apply" to save and finish.



How to add a single E-Map group:

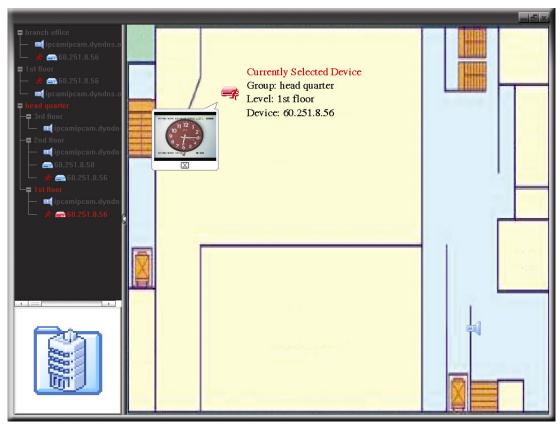
- Enter the name of this single E-Map group.
- Click "..." to browse the map file in BMP or JPEG.
- Click and drag the IP address to where it's located in the current level.
- Click "Apply" to save and finish.



How to add a building E-Map group:

- Enter the name of this building E-Map group.
- 2 Enter the total levels of this building.
- Select the level of the building from the drop-down list.
- Enter the name of the level.
- Click "..." to browse the map file in BMP or JPEG.
- 6 Click and drag the IP address to where it's located in the current level.
- Go back to STEP 3 to select other level of the building, and repeat from STEP 3 to 6 until the setup for all levels are finished.
- Click "Apply" to save and finish.

STEP3: When the E-Map group is created, you will see the tree on the top-left panel, showing all the devices you've added to this group.



Icon	Description
	The connected device is camera. When it's selected, it will become red.
	The connected device is DVR. When it's selected, it will become red.
×	For any motion or alarm event, it will appear on the screen to catch your attention. To know what's happening quickly, double-click the device icon on the E-Map to show the live view.

How to Edit / Remove an Existing E-Map Group

For Google E-Map Group

Right-click on the group name to show the shortcut menu list, and select "Edit E-MAP" or "Remove E-MAP" as needed.

You can also add a single E-Map group (Add Single E-MAP) or Building E-Map group (Add Building E-MAP) into the existing Google E-Map group.



For Single E-Map Group

Right-click on the group name to show the shortcut menu list, and select "Edit E-MAP" or "Remove E-MAP" as needed.

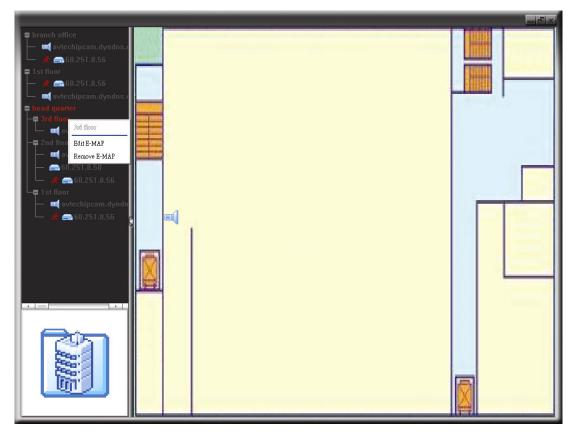


➤ For Building E-Map Group

Right-click on the group name to show the shortcut menu list, and select "Edit Building E-MAP" or "Remove E-MAP" as needed.



To edit or remove a certain level of the building E-Map group, right click on the level name, and select "Edit E-MAP" or "Remove E-MAP" as needed.



6.2 IE Web Browser

You can view the images or operate your DVR with IE web browser.

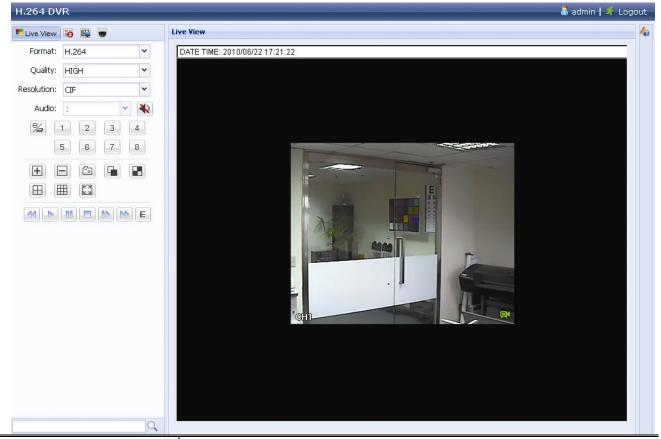
Note: The supported PC operation systems are Windows 7, Vista, XP and 2000.

Step 1: Key in the IP address used by your DVR in the URL address box, such as 60.121.46.236, and press Enter. You will be prompted to enter the user name and password to access the DVR.

If the port number your DVR used is NOT 80, you need to key in the port number additionally. The format is *ipaddress:portnum*. For example, for IP address 60.121.46.236 and port No. 888, please key in "http://60.121.46.236:888" into the URL address box, and press "Enter".

Step 2: Enter the user name and password, the same as the ones used for video viewer login, and click "OK". You will see a similar screen as the following when the login information is correct.

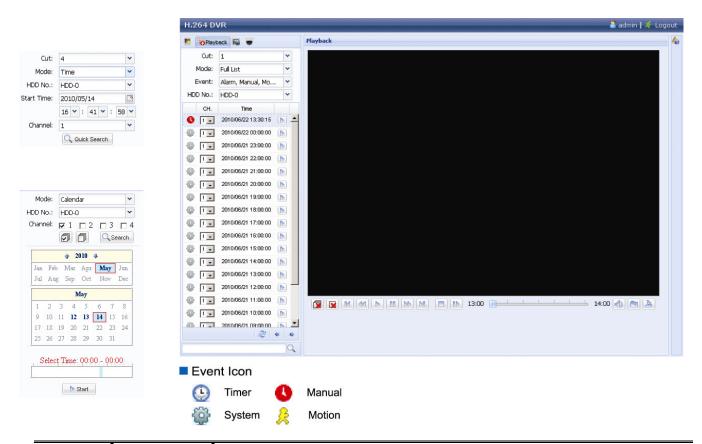
Note: Some buttons shown below are for the 8CH model only.



Icon	Description
	Click to go to the live view of the DVR.
9	Click to enter the playback panel where you can search or select the event you want to play and download to your PC simultaneously. For details, please refer to "6.2.1 Event Playback & Download" at page 43.
	Click to go to the detailed DVR setting.

Icon	Description	
•	Click to enter the PTZ mode.	
Video Control		
Format	H.264 / QuickTime	
	QuickTime is Apple Inc.'s multimedia software. You need to have QuickTime installed in you operation system first. When "QuickTime" is selected, you will be promoted to enter the user name and password to access the server of the DVR.	
Quality	BEST / HIGH / NORMAL / BASIC	
	Select the image quality.	
Resolution	CIF: 352*240 pixels	
Channel Control		
	Click to enable the remote independent operation. This icon will turn to blue, and only the available function icons will be shown.	
Channel Selection	Click one of the number to switch to the channel you want to see in full screen.	
± , =	Click to go to the previous / next channel, or change setting.	
(a)	Click to take a snapshot of the current view, and save it to the specified path in your PC set in "■" → "General".	
, .	Click to display four channels at a time. (For 8CH Model Only)	
	Click to display each channel one by one, starting from CH1. When the last channel is displayed, it will start from CH1 again.	
	To exit from this display mode, press any other channel display button.	
= , =	Click to show 4-cut / 9-cut (For 8CH Model Only) display.	
ר א ר א	Click to scale the current resolution of 352*240 pixels (CIF) to 704*480 pixels (4CIF).	
Playback Control		
	Increase the speed for fast rewind. Click once to get 4X speed rewind and click twice to get 8X speed, etc., and the maximum speed is 16X.	
DD	Increase the speed for fast forward. Click once to get 4X speed forward and click twice to get 8X speed, etc., and the maximum speed is 16X.	
	Click to play the current video clip.	
-00	Click to pause the video playback.	
	Click to stop the video playback.	
	Click to play the video clip slowly, once to get 4X slower, twice get 8X slower.	
E	Click to open the playback search panel.	

6.2.1 Event Playback & Download



2 / 2	Close all / Close	Click to close the current playback video clip (in the red frame), or to close all playback video clips.	
M/M	Previous / Next Hour	Click to jump to the next / previous time interval in an hour, for example, 11:00 ~ 12:00 or 14:00 ~ 15:00, and start playing the earliest event video clip recorded during this whole hour.	
M	Fast Forward	Increase the speed for fast rewind. Click once to get 4X speed rewind and click twice to get 8X speed, etc., and the maximum speed is 16X.	
	Fast Rewind	Increase the speed for fast forward. Click once to get 4X speed forward and click twice to get 8X speed, etc., and the maximum speed is 16X.	
	Play	Click to play the current video clip.	
0.0	Pause	Click to pause the video playback.	
	Stop	Click to stop the video playback.	
44	Step	In the pause mode, click to get one frame forward.	
	Snapshot	Click to take a snapshot of the current view, and save it to the specified path in	
		your PC set in "Щ" → "General".	
&	Download	Click to download the current video clip to the specified path in your PC.	

APPENDIX 1 SPECIFICATIONS

> For 8CH Model

Video System		NTSC / PAL (auto detection)	
Video Gystern Video Compression Format		H.264	
Video Input		11.204	
(composite video signal 1 Vp-p 75Ω BNC)		8 channels	
Video Output (Simultaneous	BNC	YES	
output for LCD & CRT monitors)	VGA	YES	
Audio Input / Output		2 audio inputs / 1 audio output (Mono)	
Massinasan Danasalinas Data (O	IE)	352×240 pixels with 240 IPS <ntsc> /</ntsc>	
Maximum Recording Rate (C	IF)	352×288 pixels with 200 IPS <pal></pal>	
Image Quality Setting		BEST / HIGH /NORMAL	
Hard Disk Storage		Accommodates 1 SATA HDD (Capacity up to 2TB)	
Quick Search		Time / Motion / Alarm search mode	
SATA Interface		Built-in	
VGA Interface		Built-in	
Recording Mode		Manual / Timer / Motion / Alarm / Remote	
USB Mouse Control		YES	
Motion Detection Area		16 × 12 grids per camera for all channels	
Motion Detection Sensitivity		HIGH / NORMAL / LOW	
Pre-alarm Recording		YES	
Backup Device		USB 2.0 flash drive / Network	
Web Transmitting Compression Format		H.264	
Ethernet		10/100 Base-T. Supports remote control and live view via Ethernet	
		Supports licensed software "Video Viewer" / Internet Explorer	
Web Interface		(10 users access simultaneously)	
		*Operating System: Windows 7 / Vista / XP / 2000	
Mobile Surveillance		Available on iPhone, BlackBerry, Windows Mobile, Symbian &	
Woodle Sulvelliance		Android with its built-in web browser	
Network Protocol		TCP/IP, PPPOE, DHCP and DDNS	
Remote Independent Operati	on	YES	
Event Notification		FTP / E-Mail	
IR Remote Control		YES (IR receiver built-in)	
Picture Zoom		2X digital zoom	
PTZ Control		YES	
Alarm I/O		4 inputs, 1 output	
Key Lock (Password Protecti	on)	YES	
Local User Level		Administrator & Operator	
Video Loss Detection		YES	
Camera Title		Supports up to 12 letters	
Video Adjustable		Hue / Saturation / Contrast / Brightness	
Date Display Format		YY/MM/DD, DD/MM/YY & MM/DD/YY	
Daylight Saving		YES	
Power Source (±10%)		DC 19V	
Power Consumption (±10%)		< 64 W	
Operating Temperature		10°C ~ 40°C (50°F~104°F)	
Dimensions (mm)**		345(W) x 68.3(H) x 225(D)	
System Recovery		System auto recovery after power failure	

^{*} The specifications are subject to change without notice. ** Dimensional Tolerance: ±5mm

> For 4CH Model

Video System		NTSC / PAL (auto detection)	
Video Compression Format		H.264	
Video Input		4 channels	
(composite video signal 1 Vp-p 75Ω BNC)		VEC	
Video Output	BNC	YES	
Audia Input / Output	VGA	YES	
Audio Input / Output		1 audio input / 1 audio output (Mono)	
Maximum Recording Rate (C	IF)	352×240 pixels with 120 IPS <ntsc> / 352×288 pixels with 100 IPS <pal></pal></ntsc>	
Image Quality Setting		BEST / HIGH /NORMAL	
Hard Disk Storage		Accommodates 1 SATA HDD (Capacity up to 2TB)	
Quick Search		Time / Motion / Alarm search mode	
SATA Interface		Built-in	
VGA Interface		Built-in	
Recording Mode		Manual / Timer / Motion / Alarm / Remote	
USB Mouse Control		YES	
Motion Detection Area		16 × 12 grids per camera for all channels	
Motion Detection Sensitivity		HIGH / NORMAL / LOW	
Pre-alarm Recording		YES	
Backup Device		USB 2.0 flash drive / Network	
Web Transmitting Compressi	on Format	H.264	
Ethernet		10/100 Base-T. Supports remote control and live view via Ethernet	
Web Interface		Supports licensed software "Video Viewer" / Internet Explorer	
		(10 users access simultaneously)	
		*Operating System: Windows 7 / Vista / XP / 2000	
Mobile Surveillance		Available on iPhone, BlackBerry, Windows Mobile, Symbian & Android with its built-in web browser	
Network Protocol		TCP/IP, PPPOE, DHCP and DDNS	
Remote Independent Operati	on	YES	
Event Notification		FTP / E-Mail	
IR Remote Control		YES (IR receiver built-in)	
Picture Zoom		2X digital zoom	
PTZ Control		YES	
Alarm I/O		4 inputs, 1 output	
Key Lock (Password Protection	on)	YES	
Local User Level		Administrator & Operator	
Video Loss Detection		YES	
Camera Title		Supports up to 12 letters	
Video Adjustable		Hue / Saturation / Contrast / Brightness	
Date Display Format		YY/MM/DD, DD/MM/YY & MM/DD/YY	
Daylight Saving		YES	
Power Source (±10%)		DC 19V	
Power Consumption (±10%)		<42 W	
Operating Temperature		10°C ~ 40°C (50°F~104°F)	
Dimensions (mm)**		345(W) x 68.3(H) x 225(D)	
System Recovery		System auto recovery after power failure	
System Recovery		,	

APPENDIX 2 COMPATIBLE USB FLASH DRIVE LIST

Please upgrade the firmware of the DVR to the latest version to ensure the accuracy of the following table. If the USB flash drive is not supported by the DVR, the "USB ERROR" message will be shown on the screen.

Note: Please use your PC to format the USB flash drive as "FAT32".

Note: You can backup up to 2GB video data for one-time USB backup. To backup more data, please set the time & channel(s) you want, and start USB backup again.

MANUFACTURER	MODEL	CAPACITY
Transcend	JFV35	4G
	JFV30	8G
Kingston	DataTraveler	1G
PQI	U172P	4G
Apacer	AH320	2GB
	AH320A	8GB
	AH220	1GB
	AH320	4GB
A-data	RB-18	1GB
Sandisk	Cruzer Micro	2G
	Cruzer Micro	4G
	Cruzer4-pk	2G
Netac	U208	1G
MSI	F200	4G
SONY	Micro Vault Tiny 2G	2G
	Micro Vault Tiny 4G	4G
	Micro Vault Tiny	1G

APPENDIX 3 COMPATIBLE SATA HDD LIST

Please upgrade the firmware of the DVR to the latest version to ensure the accuracy of the following table.

MANUFACTURER	MODEL	CAPACITY	ROTATION
Seagate	ST3320613AS	320GB	7200 rpm
	ST33500320AS	500GB	7200 rpm
	ST3750330AS	750GB	7200 rpm
	ST31000340AS	1000GB	7200 rpm
WD	WD3200AAKS	320GB	7200 rpm
	WD5000AACS	500GB	7200 rpm
	WD6400AAKS	640GB	7200 rpm
	WD7500AAKS	750GB	7200 rpm
	WD10EADS	1TB	7200 rpm
	WD15EADS	1.5TB	7200 rpm
	WD20EADS	2TB	7200 rpm
Maxtor	STM3500320AS	500GB	7200 rpm
	STM3750330AS	750GB	7200 rpm
HITACHI	HDT725032VLA360	320GB	7200 rpm
	HDS721010KLA330	1000GB	7200 rpm

APPENDIX 4 MAIN MENU STRUCTURE

QUICK START GENERAL GENERAL GENERAL CHANNEL TITLE EVENT STATUS DATE DISPLAY INAGES SIZE OD ATE TIME DATE TIME DATE TIME DATE TIME DATE TIME DATE TIME DATE TIME SYSTEM TOOLS LANGUAGE ADMIN PASSWORD OPERATOR PASSWORD OPERATOR PASSWORD OPERATOR PASSWORD OPERATOR PASSWORD OPERATOR PASSWORD OPERATOR PASSWORD TOOLS SYSTEM INFO BACKUP COVING REST ID AUTO KEY LOCK CLEAR HOD REST ID AUTO KEY LOCK AUTO KEY LOCK CLEAR HOD REST ID AUTO KEY LOCK AUTO KEY LOCK CLEAR HOD CON AUTO KEY LOCK TIME TIME				
DATE DISPLAY IMAGE SIZE OUALITY IPS. TIME SETUP DATE INFO DATE INFO DATE INFO DATE OF MANDE DATE OF		QUICK START	GENERAL	CHANNEL TITLE
DATE DISPLAY IMAGE SIZE CUALITY INTERSETUP DATE TIME TIME TO DISPLAY DATE OF MODE FORMAT DAYLIGHT DAYLIGHT DAYLIGHT SWING LANGUAGE ADMIN PASSWORD OPERATOR PASSWORD UPGRADE BACKUP CONFIG SYSTEM INFO BAUD RATE HOST REST DEFAULT REMOTE CONFIG SENTAL TYPE VIDEO FORMAT VERSION EVENT INFORMATION USB BACKUP USB	5			EVENT STATUS
TIME SETUP DATE INFO DISPLAY DATE OF MODE FORMAT DAYLIGHT DAYLIGHT DAYLIGHT DAYLIGHT SAVING ADMIN PASSWORD OPERATOR PASS				DATE DISPLAY
TIME SETUP DATE TIME DATE TIME TOOLS DATE TOOLS LANGUAGE ADMIN PASSWORD OPERATOR PASSWORD OPERATOR PASSWORD OPERATOR DATE TOOLS DATE TOOLS ADMIN PASSWORD OPERATOR DATE TOOLS TOOLS ADMIN PASSWORD OPERATOR TOOLS T				IMAGE SIZE
DATE SETUP DATE INFO DATE SETUP DATE SETUP DATE O DISPLAY DATE OF MODE FORMAT DAYLIGHT DAYLIGHT DAYLIGHT SAYING LANGUAGE ADMIN PASSWORD OPERATOR PASSWORD UPGRADE BACKUP CONFIG RESTORE CONFIG SYSTEM INFO BAUD RATE AUTO KEY LOCK CLEAR HOD RESET DEFAULT REMOTE CONTROL ID SERNAL TYPE VIDEO FORMAT VERSION EVENT INFORMATION USB BACKUP OUICK SEARCH EVENT SEARCH HOD INFO EVENT LOG CAMERA DETECTION DETECT ALARM AREA ALERT BY BUZZER ALARM AREA ALERT BY BUZZER ALARM BUZZER HOD BUZZER HOD BUZZER ALARM BUZZER HOD BUZZER ALARM BUZZER HOD BUZZER HOD BUZZER ALARM BUZZER HOD BUZZER HOD BUZZER ALARM BUZZER HOD BUZZER ALARM BUZZER HOD BUZZER				QUALITY
DATE SETUP DATE SETUP DATE INFO DISPLAY DATE OF MODE FORMAT DAYLIGHT DAYLIGHT SAVING LANGUAGE ADMIN PASSWORD OPERATOR PASSWORD UPGRADE BACKUP CONFIG SYSTEM INFO BAUD RATE HOST ID AUTO REYLOCK CLEAR DEFAULT REMOTE FORMAT VERSION USB BACKUP EVENT INFORMATION QUICK SEARCH EVENT SEARCH HOD INFO EVENT LOG ADVANCE CONFIG ADVANCE CONFIG ADVANCE CONFIG DETECTION DETECTION DETECTION DETECTION DETECTION DETECTION DETECTION DETECTION ALARM ALARM ALARM ALARM ALARM ALARM ALARM BUZZER MOTION BUZZER ALARM BUZZER MOTION BUZZER ALARM BUZZER ALARM BUZZER HOD BUZZER ALARM BUZZER ALARM BUZZER ALARM BUZZER HOD BUZZER ALARM BUZZER AL				I.P.S.
DATE INFO DAYLIGHT DAYLIGHT DAYLIGHT SAYMIG LANGUAGE ADMIN PASSWORD DEPRATOR PASSWORD DEPRATOR PASSWORD UPGRADE BACKUP CONFIG RESTORE CONFIG SYSTEM INFO BAUD RATE HOST ID AUTO KEY LOCK CLEAR HIDD RESET DEFAULT REMOTE CONTROL ID SERRAL TYPE VIDEO FORMAT VERSION EVENT INFORMATION LUSS BACKUP OUICK SEARCH EVENT SAARCH EVENT SAARCH EVENT SCAARCH EVENT SCAARCH COOV REC CHANNEL ITILE DETECTION DETECT ALARM AREA ALERT ALERT ALERT ALERT NT BUZZER MOTION BUZZER MOTION BUZZER MOTION BUZZER MOTION BUZZER ALARM DETECT ALARM AREA ALERT RET WE SEXT ALERT INT BUZZER ALARM DETECT ALARM AREA ALERT RET WE SEXT ALERT INT BUZZER ALARM DETECT ALARM AREA ALERT PETP E-MAIL DISPLAY FULL SCREEN DURATION OULDS SCREEN DURATION OUR SCREEN DURATION OULDS SCREEN DURATION OUR SCREEN DURATION OUR SCREEN DURATION OULDS SCREEN DURATION OUR SCREE			TIME SETUP	DATE
DAYLIGHT DAYLIGHT SAVING DAYLIGHT SAVING ADAYLIGHT SAVING LANGUAGE ADMIN PASSWORD OPERATOR PASSWORD OP				TIME
DAYLIGHT DAYLIGHT SAVING DAYLIGHT SAVING ADAYLIGHT SAVING LANGUAGE ADMIN PASSWORD OPERATOR PASSWORD OP		DATE SETUP	DATE INFO	DISPLAY DATE OF MODE
SYSTEM TOOLS LANGUAGE ADMIN PASSWORD OPERATOR PASSWORD UPGRADE BACKUP CONFIG RESTORE CONFIG RESTORE CONFIG RESTORE CONFIG AUTO KEY LOCK CLEAF HE PAULT REMOTE CONTROL ID SERIAL TYPE VIDEO FORMAT VERSION ADVANCE CONFIG ADVANCE CONFIG DETECTION DETECT DETECTION DETECT ALARM ALERT INTE BUZZER ALARM DURATION (SEC) HOD NETWORK RECORD	JUN	27112 02101	5711211111 0	
TOOLS LANGUAGE ADMIN PASSWORD OPERATOR PASSWORD UPGRADE BACKUP CONFIG RESTORE CONFIG RESTORE CONFIG SYSTEM INFO BAUD RATE HOST ID AUTO KEY LOCK CLEAR HOD RESET DEFAULT REMOTE CONTROL ID SERIAL TYPE VIDEO FORMAT VERSION USB BACKUP USB BACKUP USB BACKUP USB BACKUP USB BACKUP USB BACKUP EVENT INFORMATION USB BACKUP EVENT LOD REMOTE ONTROL ID SERIAL TYPE VIDEO FORMAT VERSION USB BACKUP USB BACKUP EVENT LOD SERIAL TYPE UNDEO FORMAT UVERSION ADVANCE CONFIG EVENT LOG EVEN LOG EVENT LO	رسا		DAYLIGHT	
ADMIN PASSWORD OPERATOR PASSWORD UPGRADE BACKUP CONFIG RESTORE CONFIG SYSTEM INFO BAUD RATE HOST ID AUTO KEY LOCK CLEAR HIDD RESET DEFAULT REMOTE CONTROL ID SERIAL TYPE VIDEO FORMAT VERSION USB BACKUP USB BACKUP EVENT INFORMATION QUICK SEARCH EVENT SEARCH HDD INFO EVENT LOG CAMERA ADVANCE CONFIG ADVANCE CONFIG ADVANCE CONFIG ADVANCE CONFIG DETECTION DETECT ALARM AREA ALERT EVENT SEARCH INT. BUZZER RYLOSS BUZZER WOTON BUZZER ALARM		OVOTEN		
OPERATOR PASSWORD UPGRADE BACKUP CONFIG RESTORE CONFIG RESTORE CONFIG SYSTEM INFO BAUD RATE HOST ID AUTO KEY LOCK CLEAR HOD RESET DEFAULT REMOTE CONTROL ID SERIAL TYPE VIDEO FORMAT VERSION USB BACKUP QUICK SEARCH EVENT SEARCH HDD INFO EVENT LOCG EVENT LOCG CAMERA ADVANCE CONFIG ADVANCE CONFIG ADVANCE CONFIG DETECTION DETECT CHANNEL TITLE DETECTION DETECT ALARM AREA ALERT INT. BUZZER KEY BUZZER WOTION BUZZER ALARM BUZZER HOD BUZZER HOD BUZZER ALARM DURATION (SEC) HOD NEARLY PULL (GB) NETWORK NETWORK NETWORK NETWORK NETWORK NETWORK NETWORK PILL SCREEN DURATION QUAD SCREEN	EE .	SYSTEM	10018	
UPGRADE BACKUP CONFIG RESTORE CONFIG SYSTEM INFO BAUD RATE HOST ID AUTO KEY LOCK CLEAR HOD RESET DEFAULT REMOTE CONTROL ID SERIAL TYPE VIDEO FORMAT VERSION USB BACKUP USB BACKUP USB BACKUP VERSION USB BACKUP VERSION OUICK SEARCH EVENT SEARCH HDD INFO EVENT LOG CAMERA ADVANCE CONFIG ADVANCE CONFIG ADVANCE CONFIG DETECTION DETECT ALERT ALERT DETECT ALARM AREA ALERT ALERT EXT. ALERT INT. BUZZER VLOSS BUZZER VLOSS BUZZER VLOSS BUZZER ALARM	23			
BACKUP CONFIG RESTORE CONFIG SYSTEM INFO BAUD RATE HOST ID AUTO KEY LOCK CLEAR HOD RESET DEFAULT REMOTE CONTROL ID SERIAL TYPE VIDEO FORMAT VERSION EVENT INFORMATION QUICK SEARCH HDD INFO EVENT LOG EVENT LOG CAMERA ADVANCE CONFIG CAMERA BEIGHTNESS CONTRAST SATURATION HUE COV. REC CHANNEL TITLE DETECTION DETECT ALARM AREA ALERT INT BUZZER KEY BUZZER WLOSS BUZZER MOTION BUZZER ALARM BUZZER ALARM BUZZER HDD BUZZER HDD BUZZER ALARM BECORD BURSTION GUAD SCREEN DURATION GUAD SCREEN				
SYSTEM INFO BAUD RATE HOST ID AUTO KEY LOCK CLEAR HDD RESET DEFAULT REMOTE CONTROL ID SERIAL TYPE VIDEO FORMAT VERSION USB BACKUP VERSION USB BACKUP COUCK SEARCH EVENT SEARCH HDD INFO EVENT LOG BRIGHTNESS CONTRAST SATURATION HUE COV. REC COV. REC CHANNEL TITLE DETECTION DETECT ALARM AREA ALERT ALERT EXT. ALERT INT. BUZZER KEY BUZZER MOTION BUZZER ALARM BUZZER HDD BUZZER ALARM BUZZER ALARM BUZZER HDD BUZZER HDD BUZZER ALARM BUZZER HDD BUZZER HDD BUZZER HDD BUZZER ALARM BUZZER HDD BUZZER ALARM BUZZER HDD BUZZER HDD BUZZER ALARM BUZZER HDD BUZZER HDD BUZZER ALARM BUZZER HDD BUZZER				
SYSTEM INFO BAUD RATE HOST ID AUTO KEY LOCK CLEAR HODD RESET DEFAULT REMOTE CONTROL ID SERIAL TYPE VIDEO FORMAT VERSION USB BACKUP OUICK SEARCH EVENT SEARCH HOD INFO EVENT LOG CAMERA ADVANCE CONFIG CAMERA BRIGHTNESS CONTRAST SATURATION HUE COV. REC CHANNEL TITLE DETECTION DETECT ALARM AREA ALERT EXTALERT INT. BUZZER VLOSS BUZZER VLOSS BUZZER VLOSS BUZZER ALARM BU				
HOST ID AUTO KEY LOCK CLEAR HDD RESET DEFAULT REMOTE CONTROL ID SERIAL TYPE VIDEO FORMAT VERSION USB BACKUP USB BACKUP VERSION USB BACKUP VERSION USB BACKUP OUICK SEARCH EVENT SEARCH HDD INFO EVENT LOG CAMERA ADVANCE CONFIG BRIGHTNESS CONTRAST SATURATION HUE COV. REC CAMERA AREA ALERT ALERT INT BUZZER MOTION BUZZER MOTION BUZZER ALARM BUZZER MOTION BUZZER ALARM BUZZER HDD BUZZER ALARM BECORD OVERWITE KEEP DATA LIMIT (DAYS)			0.407514.19450	
AUTO KEY LOCK CLEAR HDD RESET DEFAULT REMOTE CONTROL ID SERIAL TYPE VIDEO FORMAT VERSION USB BACKUP QUICK SEARCH EVENT INFORMATION QUICK SEARCH HDD INFO EVENT LOG ADVANCE CONFIG ADVANCE CONFIG ADVANCE CONFIG ADVANCE CONFIG ADVANCE CONFIG ADVANCE CONFIG CAMERA BRIGHTNESS CONTRAST SATURATION HUE COV. REC CHANNEL TITLE DETECTION DETECT ALARM AREA ALERT EXT. ALERT INT. BUZZER VLOSS BUZZER VLOSS BUZZER VLOSS BUZZER VLOSS BUZZER ALARM			SYSTEM INFO	
CLEAR HOD RESET DEFAULT REMOTE CONTROL ID SERIAL TYPE VIDEO FORMAT VERSION USB BACKUP CUICK SEARCH EVENT SEARCH HOD INFO EVENT LOG BRIGHTNESS CONTRAST SATURATION HUE COV. REC CHANNEL TITLE DETECTION DETECT ALARM AREA ALERT ALERT ALERT ALERT EXT ALERT INT. BUZZER WOTON BUZZER ALARM BUZZER ALARM DURATION (SEC) HOD MEARLY FULL (GB) NETWORK NETW				
RESET DEFAULT REMOTE CONTROL ID SERIAL TYPE VIDEO FORMAT VERSION USB BACKUP USB BACKUP QUICK SEARCH EVENT SEARCH EVENT SEARCH HOD INFO EVENT LOG ADVANCE CONFIG BRIGHTNESS CONTRAST SATURATION HUE COV. REC CHANNEL TITLE DETECT ALARM AREA ALARM AREA ALARM AREA ALARM AREA ALARM AREA ALARM BUZZER HOD BUZZER ALARM BUZZER BUZZER ALARM BUZZER BU				
REMOTE CONTROL ID SERIAL TYPE VIDEO FORMAT VERSION EVENT INFORMATION QUICK SEARCH EVENT SEARCH HDD INFO EVENT LOG BRIGHTNESS CONTRAST SATURATION HUE COV. REC CHANNEL TITLE DETECTION DETECT ALARM AREA ALERT ALERT ALERT ALERT ALERT BY BUZZER WOSS BUZZER VLOSS BUZZER ALARM DURATION (SEC) HDD MEARLY PULL (GB) NETWORK N				
SERIAL TYPE VIDEO FORMAT VERSION EVENT INFORMATION OUICK SEARCH EVENT SEARCH HDD INFO EVENT LOG ADVANCE CONFIG ADVANCE CONFIG ADVANCE CONFIG DETECTION DETECTION DETECT ALARM AREA ALERT ALERT EXT. ALERT EXT. ALERT INT. BUZZER HOD BUZZER ALARM BUZZER HOD BUZZER ALARM DURATION (SEC) HDD NEARLY FULL (GB) NETWORK SINTP FIP E-MAIL DISPLAY DISPLAY DISPLAY RECORD RECORD RECORD RECORD SCHEDULE SETTING RECORD EVENT INFORMATION VORS DIZZER ALARM DURATION (FOR 8CH Model Only) MANUAL RECORD ENABLE EVENT RECORD ENABLE EVENT RECORD IPS TIMER RECORD IPS TIMER RECORD IPS TIMER RECORD IPS TIMER RECORD IPS TREMOTE REMOTE REMOTE				
USB BACKUP USB BACKUP USB BACKUP EVENT INFORMATION QUICK SEARCH EVENT SEARCH HDD INFO EVENT LOG BRIGHTNESS CONTRAST SATURATION HUE COV. REC CHANNEL TITLE DETECTION DETECT ALARM AREA ALERT EXT. ALERT INT BUZZER KEY BUZZER VLOSS BUZZER HDD BUZZER ALARM DURATION (SEC) HDD NEARLY FULL (GB) NETWORK NETWORK NETWORK DISPLAY DISPLAY DISPLAY DISPLAY OUAD SCREEN DURATION QUAD				
USB BACKUP QUICK SEARCH EVENT INFORMATION QUICK SEARCH HDD INFO EVENT LOG ADVANCE CONFIG CAMERA BRIGHTNESS CONTRAST SATURATION HUE COV. REC CHANNEL ITILE DETECT ALARM AREA ALERT EXT. ALERT INT. BUZZER KEY BUZZER NOTION BUZZER ALARM BUZZER ALARM BUZZER ALARM BUZZER ALARM BUZZER ALARM BUZZER HDD BUZZER BUZZER BUZZER HDD BUZZER BUZZER BUZZER HDD BUZZER				
EVENT INFORMATION OULCK SEARCH EVENT SEARCH EVENT LOG BRIGHTNESS CONTRAST SATURATION HUE COV. REC CHANNEL TITLE DETECTION DETECT ALARM AREA ALERT ALERT INT. BUZZER KEY BUZZER HOD BUZZER ALARM DUZZER ALARM DU				
EVENT INFORMATION OUICK SEARCH EVENT SEARCH HDD INFO EVENT LOG ADVANCE CONFIG ADVANCE CONFIG ADVANCE CONFIG CAMERA BRIGHTNESS CONTRAST SATURATION HUE COV. REC CHANNEL ITILE DETECTION DETECT ALARM AREA ALERT ALERT EXT. ALERT INT. BUZZER KEY BUZZER VLOSS BUZZER VLOSS BUZZER ALARM DURATION (SEC) HDD NEAZLY FULL (GB) NETWORK NETWORK NETWORK NETWORK DISPLAY DISPLAY DISPLAY OUTPUT APITH (For 4CH Model Only ALPHA BLENDING				VERSION
EVENT SEARCH HID INFO EVENT LOG BRIGHTNESS CONTRAST SATURATION HUE COV. REC CHANNEL TITLE DETECTION DETECT ALARM AREA ALERT INT. BUZZER KEY BUZZER WOTION BUZZER WOTION BUZZER ALARM BUZZER HDD BUZZER ALARM BUZZER HDD BUZZER ALARM BUZZER HDD BUZZER ALARM BUZZER HDD NEARLY FULL (GB) NETWORK NETWORK NETWORK NETWORK SNTP FIP E-MAIL DISPLAY DISPLAY DISPLAY OUTPUT PATH (For 4CH Model Only) ALPHA BLENDING (FOR 4CH Model Only) MANUAL RECORD ENABLE EVENT RECORD ENABLE TIMER RECORD ENABLE EVENT RECORD IPS TIMER RECORD IPS TIMER RECORD IPS TIMER RECORD IPS TIMER RECORD OVERWITE KEEP DATA LIMIT (DAYS)				
ADVANCE CONFIG EVENT LOG EVENT LOG EVENT LOG CAMERA BRIGHTNESS CONTRAST SATURATION HUE COV. REC CHANNEL TITLE DETECT ALARM AREA ALERT ALERT ALERT ALERT ALERT EXT. ALERT INT. BIJZZER MOTION BUZZER HDD BUZZER ALARM BUZZER HDD NEARLY FULL (GB) NETWORK NETWORK NETWORK SNTP FIP E-MAIL DISPLAY DISPLAY DISPLAY DISPLAY FULL SCREEN DURATION QUAD SC		EVENT INFORMATION		
ADVANCE CONFIG EVENT LOG EVENT LOG BRIGHTNESS CONTRAST SATURATION HUE COV. REC CHANNEL TITLE DETECT ALARM AREA ALERT ALERT ALERT ALERT ALERT ALERT EXT. ALERT INT. BIJZZER KEY BUZZER WOTION BUZZER MOTION BUZZER ALARM BUZZER HDD DEARLY FULL (GB) NETWORK SNTP FIP E-MAIL DISPLAY DISPLAY DISPLAY DISPLAY FULL SCREEN DURATION QUAD SCREEN DURA				
ADVANCE CONFIG CAMERA BRIGHTNESS CONTRAST SATURATION HUE COV REC CHANNEL TITLE DETECT ALARM AREA ALERT ALERT ALERT EXT. ALERT INT. BUZZER WOTION BUZZER HOD BUZZER ALARM DURATION (SEC) HDD NEARLY FULL (GB) NETWORK NETWORK NETWORK NETWORK NETWORK DISPLAY DISPLAY DISPLAY RECORD RECORD RECORD BRIGHTNESS CONTRAST SATURATION HUE COV REC CHANNEL TITLE BRICHTNESS CONTRAST SATURATION HUE COV REC CHANNEL TITLE BRICHTNESS CONTRAST SATURATION HUE COV REC CHANNEL TITLE BRICHTNESS CONTRAST SATURATION HUE COV REC CHANNEL TITLE HOD BUZZER ALARM DURATION (SEC) HDD NEARLY FULL (GB) NETWORK SNTP FTP E-MAIL DISPLAY COVERT HOD DISPLAY MODE DISPLAY COVERT HOD DISPLAY MODE DISPLAY OUTPUT PATH (For 4CH Model Only) ALPHA BLENDING (FOR 4CH Model Only) TIMER RECORD ENABLE EVENT RECORD ENABLE TIMER RECORD ENABLE EVENT RECORD ISS TIMER RECORD ISS PRE-ALARM RECORD OVERWRITE KEEP DATA LIMIT (DAYS)			HDD INFO	
CONTRAST SATURATION HUE COV. REC CHANNEL TITLE DETECT ALARM AREA ALERT ALERT EXT. ALERT INT. BUZZER KEY BUZZER VLOSS BUZZER MOTION BUZZER ALARM DURATION (SEC) HDD NEARLY FULL (GB) NETWORK NETWORK NETWORK NETWORK SNTP FTP E-MAIL DISPLAY DISPLAY DISPLAY OUTPUT PATH (For 4CH Model Only) ALPHA BLENDING (For 4CH Model Only) RECORD RECORD RECORD REMOTE			EVENT LOG	
CONTRAST SATURATION HUE COV. REC CHANNEL TITLE DETECT ALARM AREA ALERT ALERT EXT. ALERT INT. BUZZER KEY BUZZER VLOSS BUZZER MOTION BUZZER ALARM DURATION (SEC) HDD NEARLY FULL (GB) NETWORK NETWORK NETWORK NETWORK DISPLAY DISPLAY PULL SCREEN DURATION QUAD SCREEN DURATION QUAD SCREEN DURATION QUAD SCREEN DURATION FULL SCREEN DURATION QUAD SCREEN DURATION ALPHA BLENDING (For 4CH Model Only) ALPHA BLENDING (For 4CH Model Only) ALPHA BLENDING (FOR ACH Model Only) ALPHA BLENDING (FOR ACH Model Only) ALPHA BLENDING (FOR ACH Model Only) RECORD RECORD RECORD SCHEDULE SETTING REMOTE		ADVANCE CONFIG	CAMERA	BRIGHTNESS
BATOMATION HUE COV. REC CHANNEL TITLE DETECTION DETECT ALARM AREA ALERT EXT. ALERT INT. BUZZER KEY BUZZER VLOSS BUZZER MOTION BUZZER ALARM BUZZER ALARM BUZZER ALARM BUZZER HDD BUZZER ALARM BUZZER ALARM BUZZER ALARM DURATION (SEC) HDD NEARLY FULL (GB) NETWORK NETWORK NETWORK SNTP FTP E-MAIL DISPLAY FULL SCREEN DURATION QUAD SCREEN DURATION QUAD SCREEN DURATION GUAD SCREEN DURATION DISPLAY COVERT HDD DISPLAY MODE DISPLAY COVERT HDD DISPLAY OUTPUT PATH (For 4CH Model Only) ALPHA BLENDING (For 4CH Model Only) ALPHA BLENDING (For 4CH Model Only) ALPHA BLENDING (For 4CH Model Only) TIMER RECORD ENABLE EVENT RECORD ENABLE EVENT RECORD ENABLE EVENT RECORD ENABLE EVENT RECORD DO PS PRE-ALARM RECORD OVERWRITE KEEP DATA LIMIT (DAYS) REMOTE	41			
HUE COV. REC COV. REC CHANNEL TITLE DETECT ALARM AREA ALERT EXT. ALERT INT. BUZZER KEY BUZZER VLOSS BUZZER MOTION BUZZER ALARM BUZZER HDD BUZZER ALARM BUZZER HDD BUZZER ALARM DURATION (SEC) HDD NEARLY FULL (GB) NETWORK NETWORK NETWORK NETWORK DISPLAY FUL SCREEN DURATION QUAD SCREEN DURATION QUAD SCREEN DURATION QUAD SCREEN DURATION FOR SKIP E-MAIL DISPLAY MODE DISPLAY MODE DISPLAY MODE DISPLAY OUTPUT PATH (For 4CH Model Only) ALPHA BLENDING (For 4CH Model Only) ALPHA BLENDING (For 4CH Model Only) ALPHA BLENDING (For 4CH Model Only) RECORD RECORD RECORD MANUAL RECORD ENABLE EVENT RECORD ENABLE EVENT RECORD ENABLE EVENT RECORD IPS TIMER RECORD DISP TIMER RECORD DOWNER PRE-ALARM RECORD OVERWRITE KEEP DATA LIMIT (DAYS) REMOTE				
COV. REC CHANNEL TITLE DETECTION DETECT ALARM AREA ALERT INT. BUZZER KEY BUZZER VLOSS BUZZER VLOSS BUZZER WOTION BUZZER ALARM BUZZER ALARM BUZZER ALARM DURATION (SEC) HDD NEARLY FULL (GB) NETWORK SNTP FTP E-MAIL DISPLAY DISPLAY FULL SCREEN DURATION QUAD SCREEN DURATION QUAD SCREEN DURATION (For 8CH Model On IDSPLAY MODE DISPLAY OUTPUT PATH (For 4CH Model Only) ALPHA BLENDING (For 4CH Model Only) RECORD RECORD MANUAL RECORD ENABLE EVENT RECORD ENABLE EVENT RECORD ENABLE EVENT RECORD ENABLE EVENT RECORD IPS TIMER RECORD IPS TIMER RECORD IPS PRE-ALARM RECORD OVERWRITE KEEP DATA LIMIT (DAYS) REMOTE				
REC CHANNEL TITLE DETECT ALARM AREA ALERT ALERT ALERT EXT. ALERT INT. BUZZER KEY BUZZER VLOSS BUZZER MOTION BUZZER ALARM MOLEO DEPLAY DEPLAY DISPLAY DISPLAY RECORD MANUAL SCREEN DURATION (For 8CH Model Only) ALPHA BLENDING (For 4CH MODEL ONLY) ALPHA BLENDING (
CHANNEL TITLE DETECT DETECT ALARM AREA ALERT ALERT EXT. ALERT INT. BUZZER KEY BUZZER VLOSS BUZZER MOTION BUZZER ALARM BUZZER ALARM DURATION (SEC) HDD NEZER ALARM DURATION (SEC) HDD NEXELY FULL (GB) NETWORK NETWORK SNTP FTP E-MAIL DISPLAY FULL SCREEN DURATION QUAD SCREEN DURATION QUAD SCREEN DURATION ALPHA BLENDING (For 8CH Model Only) RECORD RECORD MANUAL RECORD ENABLE EVENT RECORD ENABLE TIMER RECORD ENABLE TIMER RECORD IPS TIMER RECORD IPS TIMER RECORD PRE-ALARM RECORD OVERWRITE KEEP DATA LIMIT (DAYS) REMOTE				
DETECT ALARM AREA ALERT ALERT ALERT ALERT EXT. ALERT INT. BUZZER KEY BUZZER VLOSS BUZZER MOTION BUZZER ALARM BUZZER HDD BUZZER HDD BUZZER ALARM BUZZER HDD NEARLY FULL (GB) NETWORK NETWORK NETWORK SNTP FTP E-MAIL DISPLAY DISPLAY DISPLAY OUTPUT PATH (For 4CH Model Only ALPHA BLENDING (FOR 4CH MODE) DISPLAY COVERT HDD DISPLAY OUTPUT PATH (FOR 4CH MODE) DISPLAY OUTPUT PATH (FOR 4CH MODE) DISPLAY COVERT HDD DISPLAY OUTPUT PATH (FOR 4CH MODE) DISPLAY OUTPUT PATH (FOR 4CH MODE) DISPLAY COVERT HDD DISPLAY OUTPUT PATH (FOR 4CH MODE)				
ALARM AREA AREA EXT. ALERT INT. BUZZER KEY BUZZER VLOSS BUZZER MOTION BUZZER ALARM BUZZER HDD BUZZER ALARM DURATION (SEC) HDD NEARLY FULL (GB) NETWORK NETWORK NETWORK NETWORK DISPLAY DISPLAY FULL SCREEN DURATION QUAD SCREEN DURATION QUAD SCREEN DURATION DISPLAY OUTPUT PATH (For 4CH Model Only) ALPHA BLENDING (For 4CH Model Only) ALPHA BLENDING (For 4CH Model Only) RECORD RECORD RECORD MANUAL RECORD ENABLE EVENT RECORD ENABLE TIMER RECORD ENABLE TIMER RECORD IPS TIMER RECORD IPS TIMER RECORD IPS PRE-ALARM RECORD OVERWRITE KEEP DATA LIMIT (DAYS)			DETECTION	
AREA ALERT EXT. ALERT INT. BUZZER KEY BUZZER VLOSS BUZZER WIOSS BUZZER MOTION BUZZER ALARM BUZZER ALARM BUZZER HDD BUZZER ALARM DURATION (SEC) HDD NEARLY FULL (GB) NETWORK SNTP FTP E-MAIL DISPLAY FULL SCREEN DURATION QUAD SCREEN DURATION QUAD SCREEN DURATION QUAD SCREEN DURATION GUAD SCREEN DURATION DISPLAY COVERT HDD DISPLAY MODE DISPLAY OUTPUT PATH (For 4CH Model Only) ALPHA BLENDING (For 4CH Model Only) RECORD RECORD MANUAL RECORD ENABLE EVENT RECORD ENABLE TIMER RECORD ENABLE TIMER RECORD IPS TIMER RECORD IPS TIMER RECORD OVERWRITE KEEP DATA LIMIT (DAYS) REMOTE			52.200	
ALERT EXT. ALERT INT. BUZZER VLOSS BUZZER VLOSS BUZZER MOTION BUZZER ALARM BUZZER HDD BUZZER ALARM DURATION (SEC) HDD NEARLY FULL (GB) NETWORK NETWORK SNTP FTP E-MAIL DISPLAY FULL SCREEN DURATION QUAD SCREEN DURATION QUAD SCREEN DURATION GUAD SCREEN DURATION ALPHA BLENDING (For 4CH Model Only) TIMER RECORD ENABLE EVENT RECORD ENABLE TIMER RECORD ENABLE TIMER RECORD IPS TIMER RECORD IPS PRE-ALARM RECORD OVERWRITE KEEP DATA LIMIT (DAYS) REMOTE				
INT. BUZZER KEY BUZZER VLOSS BUZZER MOTION BUZZER ALARM BUZZER HDD BUZZER ALARM DURATION (SEC) HDD NEARLY FULL (GB) NETWORK NETWORK NETWORK SNTP FTP E-MAIL DISPLAY DISPLAY FULL SCREEN DURATION QUAD SCREEN DURATION (For 8CH Model of DISPLAY COVERT HDD DISPLAY MODE DISPLAY OUTPUT PATH (For 4CH Model Only) ALPHA BLENDING (For 4CH Model Only) ALPHA BLENDING (For 4CH Model Only) RECORD RECORD RECORD ENABLE EVENT RECORD ENABLE EVENT RECORD IPS TIMER RECORD IPS TIMER RECORD IPS TIMER RECORD OVERWAITE KEEP DATA LIMIT (DAYS)			AI FRT	
RECORD KEY BUZZER VLOSS BUZZER MOTION BUZZER ALARM BUZZER ALARM DURATION (SEC) HDD NEARLY FULL (GB) NETWORK NETWORK NETWORK SNTP FTP E-MAIL DISPLAY FULL SCREEN DURATION QUAD SCREEN DURATION QUAD SCREEN DURATION (For 8CH Model of DISPLAY COVERT HDD DISPLAY MODE DISPLAY MODE DISPLAY MODE DISPLAY MODE DISPLAY FULL (For 4CH Model Only) ALPHA BLENDING (For 4CH Model Only) RECORD MANUAL RECORD ENABLE EVENT RECORD ENABLE TIMER RECORD ENABLE EVENT RECORD IPS TIMER RECORD IPS TIMER RECORD OVERWRITE KEEP DATA LIMIT (DAYS) REMOTE			, LEIKI	
VLOSS BUZZER MOTION BUZZER ALARM BUZZER ALARM DURATION (SEC) HDD NEARLY FULL (GB) NETWORK NETWORK SNTP FTP E-MAIL DISPLAY FULL SCREEN DURATION QUAD SCREEN DURATION QUAD SCREEN DURATION QUAD SCREEN DURATION ALPHA BLENDING (For 4CH Model Only) ALPHA BLENDING (For 4CH Model Only) ALPHA BLENDING (For 4CH Model Only) RECORD MANUAL RECORD ENABLE EVENT RECORD ENABLE EVENT RECORD ENABLE EVENT RECORD IPS TIMER RECORD IPS TIMER RECORD IPS TIMER RECORD OVERWRITE KEEP DATA LIMIT (DAYS) REMOTE				
MOTION BUZZER ALARM BUZZER ALARM DURATION (SEC) HDD NEARLY FULL (GB) NETWORK NETWORK NETWORK NETWORK SNTP FTP E-MAIL DISPLAY FULL SCREEN DURATION QUAD SCREEN DURATION QUAD SCREEN DURATION (For 8CH Model of Display Covert HDD Display Mode Display OUTPUT PATH (For 4CH Model Only ALPHA BLENDING (For 4CH Model Only ALPHA BLENDING (For 4CH Model Only ALPHA BLENDING (For 4CH Model Only ONLY ALPHA BLENDING (FOR DENABLE TIMER RECORD ENABLE EVENT RECORD ENABLE EVENT RECORD ENABLE TIMER RECORD IPS TREALARM RECORD OVERWRITE KEEP DATA LIMIT (DAYS)				
ALARM BUZZER HDD BUZZER ALARM DURATION (SEC) HDD NEARLY FULL (GB) NETWORK NETWORK NETWORK SNTP FTP E-MAIL DISPLAY FULL SCREEN DURATION QUAD SCREEN DURATION (For 8CH Model of DISPLAY OUTPUT PATH (For 4CH Model only ALPHA BLENDING (For 4CH Model Only) RECORD RECORD MANUAL RECORD ENABLE EVENT RECORD ENABLE TIMER RECORD ENABLE EVENT RECORD IPS TIMER RECORD IPS TIMER RECORD IPS TIMER RECORD IPS TIMER RECORD OVERWRITE KEEP DATA LIMIT (DAYS) REMOTE SCHEDULE SETTING RECORD				
HDD BUZZER ALARM DURATION (SEC) HDD NEARLY FULL (GB) NETWORK NETWORK SNTP FTP E-MAIL DISPLAY FULL SCREEN DURATION QUAD SCREEN DURATION (For 8CH Model of DISPLAY OUTPUT PATH (For 4CH Model of DISPLAY OUTPUT PATH (For 4CH Model only) ALPHA BLENDING (For 4CH Model Only) ALPHA BLENDING (For 4CH Model Only) RECORD RECORD MANUAL RECORD ENABLE EVENT RECORD ENABLE TIMER RECORD ENABLE EVENT RECORD IPS TIMER RECORD IPS TIMER RECORD IPS PRE-ALARM RECORD OVERWRITE KEEP DATA LIMIT (DAYS) REMOTE				
ALARM DURATION (SEC) HDD NEARLY FULL (GB) NETWORK NETWORK SNTP FTP E-MAIL DISPLAY DISPLAY FULL SCREEN DURATION QUAD SCREEN DURATION QUAD SCREEN DURATION (For 8CH Model of DISPLAY COVERT HDD DISPLAY MODE DISPLAY OUTPUT PATH (For 4CH Model Only) ALPHA BLENDING (For 4CH Model Only) ALPHA BLENDING (For 4CH Model Only) MANUAL RECORD ENABLE EVENT RECORD ENABLE TIMER RECORD ENABLE TIMER RECORD IPS TIMER RECORD IPS PRE-ALARM RECORD OVERWRITE KEEP DATA LIMIT (DAYS) REMOTE SCHEDULE SETTING RECORD				
HDD NEARLY FULL (GB) NETWORK NETWORK SNTP FTP E-MAIL DISPLAY FULL SCREEN DURATION QUAD SCREEN DURATION (For 8CH Model of Display Covert HDD DISPLAY MODE DISPLAY OUTPUT PATH (For 4CH Model Only) ALPHA BLENDING (For 4CH Model Only) ALPHA BLENDING (For 4CH Model Only) RECORD MANUAL RECORD ENABLE EVENT RECORD ENABLE TIMER RECORD ENABLE EVENT RECORD IPS TIMER RECORD IPS TIMER RECORD IPS PRE-ALARM RECORD OVERWRITE KEEP DATA LIMIT (DAYS) REMOTE SCHEDULE SETTING RECORD				
NETWORK NETWORK SNTP FTP E-MAIL DISPLAY DISPLAY DISPLAY FULL SCREEN DURATION QUAD SCREEN DURATION QUAD SCREEN DURATION (For 8CH Model of Display Covert) HDD DISPLAY MODE DISPLAY OUTPUT PATH (For 4CH Model Only) ALPHA BLENDING (For 4CH Model Only) RECORD MANUAL RECORD ENABLE EVENT RECORD ENABLE EVENT RECORD ENABLE EVENT RECORD IPS TIMER RECORD IPS TIMER RECORD IPS PRE-ALARM RECORD OVERWRITE KEEP DATA LIMIT (DAYS) REMOTE				
SNTP FTP E-MAIL DISPLAY FULL SCREEN DURATION QUAD SCREEN DURATION (For 8CH Model of Display Covert HDD DISPLAY MODE DISPLAY OUTPUT PATH (For 4CH Model Only) ALPHA BLENDING (For 4CH Model Only) ALPHA BLENDING (For 4CH Model Only) RECORD MANUAL RECORD ENABLE EVENT RECORD ENABLE TIMER RECORD ENABLE EVENT RECORD IPS TIMER RECORD IPS TIMER RECORD IPS PRE-ALARM RECORD OVERWRITE KEEP DATA LIMIT (DAYS) REMOTE SCHEDULE SETTING RECORD			NETWORK	
FTP E-MAIL DISPLAY FULL SCREEN DURATION QUAD SCREEN DURATION (For 8CH Model of DISPLAY COVERT HDD DISPLAY MODE DISPLAY OUTPUT PATH (For 4CH Model Only) ALPHA BLENDING (For 4CH Model Only) RECORD MANUAL RECORD ENABLE EVENT RECORD ENABLE TIMER RECORD ENABLE TIMER RECORD IPS TIMER RECORD IPS TIMER RECORD IPS PRE-ALARM RECORD OVERWRITE KEEP DATA LIMIT (DAYS) REMOTE SCHEDULE SETTING RECORD				
E-MAIL DISPLAY FULL SCREEN DURATION QUAD SCREEN DURATION (For 8CH Model of DISPLAY MODE) DISPLAY MODE DISPLAY OUTPUT PATH (For 4CH Model Only) ALPHA BLENDING (For 4CH Model Only) ALPHA BLENDING (For 4CH Model Only) MANUAL RECORD ENABLE EVENT RECORD ENABLE TIMER RECORD ENABLE EVENT RECORD IPS TIMER RECORD IPS TIMER RECORD IPS PRE-ALARM RECORD OVERWRITE KEEP DATA LIMIT (DAYS) REMOTE SCHEDULE SETTING RECORD				
DISPLAY FULL SCREEN DURATION QUAD SCREEN DURATION (For 8CH Model of DISPLAY COVERT HDD DISPLAY MODE DISPLAY OUTPUT PATH (For 4CH Model Only) ALPHA BLENDING (For 4CH Model Only) ALPHA BLENDING (For 4CH Model Only) RECORD MANUAL RECORD ENABLE EVENT RECORD ENABLE TIMER RECORD ENABLE EVENT RECORD IPS TIMER RECORD IPS TIMER RECORD IPS PRE-ALARM RECORD OVERWRITE KEEP DATA LIMIT (DAYS) REMOTE SCHEDULE SETTING RECORD				
QUAD SCREEN DURATION (For 8CH Model of DISPLAY COVERT HDD DISPLAY MODE DISPLAY OUTPUT PATH (For 4CH Model Only) ALPHA BLENDING (For 4CH Model Only) RECORD MANUAL RECORD ENABLE EVENT RECORD ENABLE TIMER RECORD IPS TIMER RECORD IPS TIMER RECORD IPS PRE-ALARM RECORD OVERWRITE KEEP DATA LIMIT (DAYS) REMOTE SCHEDULE SETTING RECORD			DISPLAY	
DISPLAY COVERT HDD DISPLAY MODE DISPLAY OUTPUT PATH (For 4CH Model Only) ALPHA BLENDING (For 4CH Model Only) MANUAL RECORD ENABLE EVENT RECORD ENABLE TIMER RECORD IPS TIMER RECORD IPS PRE-ALARM RECORD OVERWRITE KEEP DATA LIMIT (DAYS) REMOTE SCHEDULE SETTING RECORD			· ·	
HDD DISPLAY MODE DISPLAY OUTPUT PATH (For 4CH Model Only) ALPHA BLENDING (For 4CH Model Only) RECORD MANUAL RECORD ENABLE EVENT RECORD ENABLE TIMER RECORD IPS TIMER RECORD IPS TIMER RECORD IPS PRE-ALARM RECORD OVERWRITE KEEP DATA LIMIT (DAYS) REMOTE SCHEDULE SETTING RECORD				
DISPLAY OUTPUT PATH (For 4CH Model Only) ALPHA BLENDING (For 4CH Model Only) RECORD MANUAL RECORD ENABLE EVENT RECORD ENABLE TIMER RECORD ENABLE EVENT RECORD IPS TIMER RECORD IPS PRE-ALARM RECORD OVERWRITE KEEP DATA LIMIT (DAYS) REMOTE SCHEDULE SETTING RECORD				
ALPHA BLENDING (For 4CH Model Only) RECORD MANUAL RECORD ENABLE EVENT RECORD ENABLE TIMER RECORD IPS TIMER RECORD IPS TIMER RECORD IPS PRE-ALARM RECORD OVERWRITE KEEP DATA LIMIT (DAYS) REMOTE SCHEDULE SETTING RECORD				
RECORD MANUAL RECORD ENABLE EVENT RECORD ENABLE TIMER RECORD ENABLE EVENT RECORD IPS TIMER RECORD IPS TIMER RECORD IPS PRE-ALARM RECORD OVERWRITE KEEP DATA LIMIT (DAYS) REMOTE SCHEDULE SETTING RECORD				
EVENT RECORD ENABLE TIMER RECORD ENABLE EVENT RECORD IPS TIMER RECORD IPS PRE-ALARM RECORD OVERWRITE KEEP DATA LIMIT (DAYS) REMOTE SCHEDULE SETTING RECORD			RECORD	
TIMER RECORD ENABLE EVENT RECORD IPS TIMER RECORD IPS PRE-ALARM RECORD OVERWRITE KEEP DATA LIMIT (DAYS) REMOTE SCHEDULE SETTING RECORD			1,200,10	
EVENT RECORD IPS TIMER RECORD IPS PRE-ALARM RECORD OVERWRITE KEEP DATA LIMIT (DAYS) REMOTE SCHEDULE SETTING RECORD				
TIMER RECORD IPS PRE-ALARM RECORD OVERWRITE KEEP DATA LIMIT (DAYS) REMOTE SCHEDULE SETTING RECORD			1	
PRE-ALARM RECORD OVERWRITE KEEP DATA LIMIT (DAYS) REMOTE SCHEDULE SETTING RECORD				
OVERWRITE KEEP DATA LIMIT (DAYS) REMOTE SCHEDULE SETTING RECORD				PRE-ALARM RECORD
REMOTE SCHEDULE SETTING RECORD KEEP DATA LIMIT (DAYS) REMOTE				
REMOTE SCHEDULE SETTING RECORD				
SCHEDULE SETTING RECORD			REMOTE	NEEL DATA LIMIT (DATO)
			NLIVIOTE	
DETECTION		SCHEDULE SETTING	RECORD	
	Θ		DETECTION	
BETEGION			DETECTION	

APPENDIX 5 DVR BATTERY REPLACEMENT

DVR time reset after power failure, for example, caused by a power outage, will cause the disorder of the recorded data, and users may have problems in searching the event clip they want. To keep the DVR time from resetting, a non-chargeable lithium battery, *CR2032*, is installed in the DVR.

However, the DVR time might still get reset when the DVR battery is low or even running out of power. If so, please replace the DVR battery, CR2032, <u>right away</u> as instructed below.

➤ How to replace CR2032

Note: The lithium battery, CR2032, is a non-chargeable battery, and should be purchased separately. Please replace only with the same or equivalent type battery in case of danger.

Step1: Stop all DVR recording **immediately** to prevent the disorder of the recorded data. Then, back up the recorded data if necessary.

Step2: Power off the DVR, and disconnect the DVR power.

Step3: Remove the DVR cover, and find the battery on the mainboard.

Step4: Push the release as indicated below to remove the battery.

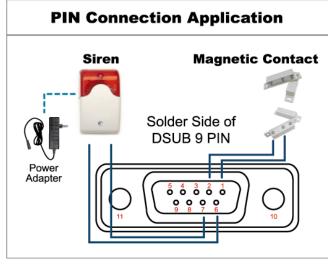


Step5: Get a new battery with the side of "CR2032" facing up, and install it to the mainboard.

Step6: Replace the DVR cover and connect to power.

Step7: Set DVR date & time, and resume recording. For details, please refer to "2.4 Date and Time Setting" at page 7, and "5.2 Record" at page 18.

APPENDIX 6 PIN CONFIGURATION



* The D-Sub connector shown above is optional.

Siren:

When the DVR is triggered by alarm or motion, the COM connects with NO and the siren with strobe starts wailing and flashing.

Magnetic Contact:

When the magnetic contact is opened, the alarm will be triggered and the recording is on.

PIN	FUNCTION	DESCRIPTION	
1~4	ALARM INPUT	Connect ALARM INPUT (PIN1 – 4) and GND (PIN5) connector with wires. Once an alarm is triggered, the DVR will start recording and the buzzer will be on. PIN Alarm Corresponding video channel PIN 1 1 CH1 PIN 2 2 CH2 PIN 3 3 CH3 PIN 4 4 CH4	
5	GND	GROUND	
6	EXTERNAL ALARM COM	Under the normal operation, COM disconnects with NO. But when any alarm is triggered, COM connects with NO. Attention: The voltage restriction is under DC24V 1A.	
7	EXTERNAL ALARM NO	Under the normal operation, COM disconnects with NO. But when any alarm is triggered, COM connects with NO. Attention: The voltage restriction is under DC24V 1A.	
8	RS485-A		
9	RS485-B		
10~11	GND	GROUND	